WHO TO CONTACT

Concerning:

Write:

Call:

Academic Matters, Academic Affairs

Academic Records, Registrar's Office

Transcript Requests

Admissions, Application Procedures

Athletics

Alumni Association

College of Arts and Sciences

College of Business

College of Education

College of Nursing (Samaritan College of Nursing)

College of Performing Arts

Dormitories, Housing

Fund Development, Estate Planning, Endowment Gifts

Publicity Materials

Scholarships, Loans, Grants, Veteran Affairs

Student Accounts, Tuition, Fees, Expenses

Student Employment

(602) 249-3300, x260
589-2850
589-2855
589-2865
249-3300, x889
589-2867
249-3300, x271
249-3300, x170
249-3300, x290
589-2830
249-3300, x208
249-3300, x340
589-2895
589-2880
589-2831

This catalog contains current information regarding the calendar, admissions, degree requirements, fees, regulations and course offerings. This catalog is for informational purposes and does not constitute a contract. The University reserves the right to make changes in any respect to the calendar, programs, fees, or academic schedules whenever these are deemed necessary or desirable, including changes in course content, class enrollment, and the cancelling of scheduled classes or other academic activities.

In accordance with federal laws and regulations, Grand Canyon University does not discriminate against any student or prospective student on the basis of sex, race, religion, age, physical handicap, or national origin in its educational programs or activities.

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## 1989-1990

(Administering reserves the right to make changes in the Calendar)

### FALL SEMESTER/1989

- **Resident Housing Open for Fall** (New Students)
- **Resident Housing Open for Fall (Returning Students)**
- **New Student Orientation/Activities**
- **Group Admissions for New Students Faculty/Staff Prologue**
- **Registration for Graduates, Second Degrees, 5th Year, Seniors, Juniors**
- **Registration for Sophomores, Freshmen, Unclassifieds**
- **Labor Day**

### JANUARY TERM/1990

- **New Year's Day**
- **Registration (8:00 a.m. - 10:00 a.m.)**
- **Instruction Begins** (ALL classes meet at 10:30 a.m.)
- **Convoction/Required of all January Term Students. Classes resume immediately following Convocation.**
- **Last day to register for Block courses**
- **Spring Student Teaching begins**
- **Spring Student Teaching ends**

### SUMMER PRE-SESSION/1990

- **Instruction Begins**
- **Memorial Day**
- **Independence Day**
- **Labor Day**
- **NOTE: Registration for the Pre-Session will be at the same time as Summer I registration.**

### SPRING SEMESTER/1990

- **Resident Housing Open for Spring (New Students)**
- **Resident Housing Open for Spring (Returning Students)**
- **Group Admissions/ New Student Orientation**
- **Faculty/Staff Workshop**
- **Registration**
- **First Day of Classes**
- **Veteran's Day**
- **Pre-Registration for Spring 1990 (Currently Enrolled Students Only) - Evening Registration for Evening Students only will be on Tuesday Night.**

### 1990

- **Fall Semester begins**
- **Grades for Incompletes earned in Spring/Summer Sessions due**
- **Final Examinations**
- **Winter Holiday**
- **Summer I Session Ends**
- **Summer I Final grades due by noon**

### STUDENT TEACHING - FALL/1989

- **Education Block courses begin**
- **Last day to register for Block courses**
- **Last day to drop Block courses**
- **Education Block courses end**
- **Fall Student Teaching begins**
- **Fall Student Teaching ends**

### 1990-1991

- **Resident Housing Open for Fall (New Students)**
- **Resident Housing Open for Fall (Returning Students)**
- **New Student Orientation/Activities**
- **Group Admissions for New Students Faculty/Staff Prologue**
- **Registration for Graduates, Second Degrees, 5th Year, Seniors, Juniors**
- **Registration for Sophomores, Freshmen, Unclassifieds**
- **Evening Registration (One Night Only)**
- **Late Registration**
- **Labor Day**
- **President's Day**
- **Veteran's Day**
- **Pre-Registration for Fall 1990 (Currently Enrolled Students Only - Evening Registration for Evening Students only will be on Tuesday Night.**

### SUMMER II SESSION/1990

- **Registration (8:00 a.m. - 12:00 p.m.)**
- **Late Registration (After 12:00 p.m.)**
- **Instruction Begins**
- **Last day to change schedule, add a course**
- **Last day to drop a class, change to audit**
- **Independence Day**
- **Summer II Session Ends**
- **Summer II Final grades due by noon**

### STUDENT TEACHING - FALL/1990

- **Education Block courses begin**
- **Last day to register for Block courses**
- **Last day to drop Block courses**
- **Education Block courses end**
- **Spring Student Teaching begins**
- **Spring Student Teaching ends**

### 1990

- **Fall Semester begins**
- **Grades for Incompletes earned in Spring/Summer Sessions due**
- **Final Examinations**
- **Fall Semester ends**
- **Fall Final grades due by noon**

### STUDENT TEACHING - FALL/1990

- **Education Block courses begin**
- **Last day to register for Block courses**
- **Last day to drop Block courses**
- **Education Block courses end**
- **Fall Student Teaching begins**
- **Fall Student Teaching ends**
### JANUARY TERM/1991

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Year’s Day</td>
<td>Jan 1</td>
</tr>
<tr>
<td>(No classes meet, Offices closed)</td>
<td></td>
</tr>
<tr>
<td>*Registration (8:00 a.m. - 10:00 a.m.)</td>
<td>Jan 2</td>
</tr>
<tr>
<td>*Instruction Begins</td>
<td>Mar 1</td>
</tr>
<tr>
<td>(ALL classes meet at 10:30 a.m.)</td>
<td></td>
</tr>
<tr>
<td>*Convocation (Required of all</td>
<td>Mar 4</td>
</tr>
<tr>
<td>January Term Students. Casses resume</td>
<td></td>
</tr>
<tr>
<td>immediately following Convocation.)</td>
<td></td>
</tr>
<tr>
<td>Last day to register for January Term</td>
<td>Mar 5</td>
</tr>
<tr>
<td>Last day to drop a class,</td>
<td>Mar 6</td>
</tr>
<tr>
<td>change to audit</td>
<td>Mar 7</td>
</tr>
<tr>
<td>* Recommend Dates for changes</td>
<td>Mar 8</td>
</tr>
<tr>
<td>January Term Ends</td>
<td>Mar 9</td>
</tr>
<tr>
<td>January Term Final grades</td>
<td>Mar 10</td>
</tr>
<tr>
<td>due by noon</td>
<td>Mar 11</td>
</tr>
<tr>
<td>*Refer to Class Bulletin for specified</td>
<td>Mar 12</td>
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<tr>
<td>times</td>
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</tbody>
</table>

### SPRING SEMESTER/1991

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Resident Housing Open for Spring</td>
<td>Jan 19</td>
</tr>
<tr>
<td>(New Students)</td>
<td></td>
</tr>
<tr>
<td>Resident Housing Open for Spring</td>
<td>Jan 20</td>
</tr>
<tr>
<td>(Returning Students)</td>
<td></td>
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<tr>
<td>Group Advisement/</td>
<td>Jan 21-22</td>
</tr>
<tr>
<td>New Student Orientation/</td>
<td></td>
</tr>
<tr>
<td>Faculty/Staff Workshop</td>
<td>Jan 23</td>
</tr>
<tr>
<td>*Registration</td>
<td>Mar 13</td>
</tr>
<tr>
<td>*Evening Registration (One Night Only)</td>
<td>Mar 14</td>
</tr>
<tr>
<td>Late Registration</td>
<td>Mar 15</td>
</tr>
<tr>
<td>*Instruction Begins</td>
<td>Apr 15-19</td>
</tr>
<tr>
<td>Last day to change schedule,</td>
<td></td>
</tr>
<tr>
<td>add a course</td>
<td>Mar 16</td>
</tr>
<tr>
<td>President’s Day</td>
<td>Mar 17</td>
</tr>
<tr>
<td>(No classes meet, Offices closed)</td>
<td>Mar 18</td>
</tr>
<tr>
<td>Mid-Term Examinations</td>
<td>Mar 19</td>
</tr>
<tr>
<td>Spring Break (No classes meet)</td>
<td>Mar 20</td>
</tr>
<tr>
<td>Good Friday</td>
<td>Mar 21</td>
</tr>
<tr>
<td>(No classes meet, Offices closed)</td>
<td>Mar 22</td>
</tr>
<tr>
<td>Last day to drop a class,</td>
<td>Mar 23</td>
</tr>
<tr>
<td>change to audit</td>
<td>Mar 24</td>
</tr>
<tr>
<td>Pre-Registration for Fall 1991</td>
<td>Mar 25</td>
</tr>
<tr>
<td>(Currently Enrolled Students Only -</td>
<td>Mar 26</td>
</tr>
<tr>
<td>Even Registration for Even</td>
<td>Mar 27</td>
</tr>
<tr>
<td>Students only will be on</td>
<td>Mar 28</td>
</tr>
<tr>
<td>Tuesday Night)</td>
<td>Apr 1</td>
</tr>
<tr>
<td>Graded for Incomplete earned in</td>
<td>Apr 2</td>
</tr>
<tr>
<td>Fall January semesters due</td>
<td>Apr 3</td>
</tr>
<tr>
<td>Final Examinations</td>
<td>May 1</td>
</tr>
<tr>
<td>Spring Semester Ends</td>
<td>May 2</td>
</tr>
<tr>
<td>Spring Semester Exams/</td>
<td>May 3</td>
</tr>
<tr>
<td>Baccalaureate/Graduation</td>
<td>May 4</td>
</tr>
<tr>
<td>Spring Final grades due by noon</td>
<td>May 5</td>
</tr>
</tbody>
</table>

*Refer to Class Bulletin for specified times*
PURPOSE OF THE UNIVERSITY

Grand Canyon College was chartered in 1949 by the Baptist General Convention of Arizona. In 1989 it became Grand Canyon University. Grand Canyon University is a Christian, liberal arts university. As such, it offers Bachelor's degree programs and Master's degree programs within the College of Education, which feature academic excellence in an environment where a Christian perspective is emphasized. The University strives to attract capable, ambitious, and moral people who can benefit from a college education with a Christian emphasis and who are motivated by ideals of service in various fields of human endeavor.

In emphasizing a liberal arts education which supports professional competency, the University seeks to develop in individuals a recognition of spiritual realities, competence in scholarship and critical thinking, an international perspective, an appreciation of aesthetic values, habits of good health, and an understanding of their heritage. As a result, Grand Canyon students are distinguished by their ability to offer leadership and service under the Lordship of Christ.

CHRISTIAN EMPHASIS

Grand Canyon University provides a Christian atmosphere where religious issues are discussed, spiritual renewal is encouraged, and the relevance of Christianity to our culture is explored. The Christian emphasis of the University finds expression in both formal and informal activities.

Informal activities include attendance at chapel services and courses in Old and New Testament History which are required for graduation. Classes are encouraged to explore the integration of the Christian faith with their discipline. Once each semester and during the Staley Lecture Series in February, the University allocates special times for outstanding Christian leaders to speak to the student body.

Informal activities sponsored by the University which have a Christian emphasis include the Baptist Student Union, Christian Ministries Association, SOWers and other student clubs. An active missions program has resulted in students and faculty serving in more than 30 foreign countries since 1983.

The University encourages an atmosphere supportive of Christian ideals in the classrooms, in the residence halls, on the athletic field and in every University activity.

Many students coming to Grand Canyon University are confident and clear about their religious faith; others are uncertain, indifferent or uninformed. The interaction of these persons with each other stimulates spiritual growth and develops new insights.

Grand Canyon University adds a spiritual thrust to the challenging and academically demanding nature of a high-quality college education. The University emphasizes and exemplifies the fact that scholarship and Christian witness are not only compatible but complementary.

ACCREDITATION

The University is accredited by North Central Association of Colleges and Schools.

The Arizona State Department of Education has given formal approval of the work done at the University for the certification of elementary and secondary teachers and for the renewal of certificates.

The National League for Nursing and the Arizona State Board of Nursing accredit the University for the Bachelor of Science in Nursing degree.

The University is a member of the Association of Southern Baptist Colleges, the Council of Independent Colleges and the Christian College Coalition.

By authorization from the Immigration and Naturalization Service of the Department of Justice, non-immigrant alien students may apply for admission to the University. (See page 44.)

ALUMNI ASSOCIATION

The Alumni Association of Grand Canyon University was organized in the spring of 1953, when the first four-year class graduated. The constitution, adopted in 1955, provides for membership of graduates and those former students who have completed a minimum of 32 semester hours in residence. Only graduates may hold elective offices.

AMERICAN STUDIES PROGRAM

The American Studies Program, sponsored by the Christian College Coalition, is designed for juniors and seniors with a wide range of academic majors and vocational interests. Students are involved in the American Studies Program for periods of three or four months. The internship/seminar opportunity is available starting in September and in January.

The American Studies Program was created to provide field experience and study opportunities in Washington D.C., for diverse majors and personal interests. The program is based on the idea in integrating faith and learning through both a real-life work experience and a study program, and living in a small Christian community.

In 1986, the Christian College Coalition opened a Latin American Studies Program in San Jose, Costa Rica. Students interested in applying for either of these programs should secure the appropriate application materials from the office of the Vice President for Academic Affairs. Acceptance into either program is determined by the Christian College Coalition's staff, not Grand Canyon University, and priority is granted to earlier applicants.

CENTER FOR INTERNATIONAL STUDIES

Grand Canyon University's international programs offer students opportunities to increase their global awareness through experience. Since 1983 approximately 400 of Grand Canyon University's students, faculty, and staff have traveled to over 30 countries to teach, minister, or study. The Center for International Studies was established in 1986 to enhance and increase study abroad programs.

ONGOING PROGRAMS

China - Grand Canyon University has relationships with two colleges in far northwest China - August First Agricultural College and Kashgar Teacher's College. Each summer 10 students travel to each school to teach English. All students are encouraged to enroll in English Language Teaching Foundations and Methodology and do their practicum in China.

Brazil - A ten year agreement to assist 10 churches in and around Presidente Prudente, Sao Paulo, Brazil, takes 30-40 people there for two weeks each summer. Any student is eligible to take part in this ministry.

Japan - Nagoya International University sends a group of students to Grand Canyon's campus each January. A student exchange agreement exists between the two universities.

Spain - Intermediate and advanced Spanish and courses in Spanish history and culture are available through a semester in Madrid. Each summer other groups go to such places as Scotland, Russia, England, Germany and France. Students interested in international learning opportunities should contact the Center for International Studies.

FACULTY

Grand Canyon selects its instructional staff to fulfill its mission, emphasis being placed upon character, academic competence, teaching ability and personality. Evidence of character include dynamic Christian living, active participation in and financial support of church affairs, maintenance of high standards of accomplishment for themselves and for their students, and punctuality and dependability in meeting their responsibilities. Evidence of academic competence include the acquiring of advanced degrees, contributions in their fields of specialization, and professional habits of study and research. Teaching ability is determined by a process which includes both student and peer evaluations. Desirable personality traits for faculty include friendliness, fair-mindedness, sympathetic understanding, a sense of humor, self-control, and humility.

GOVERNING BODY

The University, owned and operated by Arizona Southern Baptists, is governed by a board of trustees elected by the Arizona Southern Baptist Convention.

The name of Grand Canyon University shall not be used by any student or any employee of the University in connection with any commercial venture, without the written approval of the President of the University.

HISTORICAL SKETCH

Grand Canyon College was born in the wake of World War II — the realization of a dream long held dear by the tiny congregations of Southern Baptists that called the Arizona mission frontier their home.

Determined to quench the post-war thirst for education with Living Water, as well as a strong draught of academics, the Baptist General Convention of Arizona in the fall of 1946 voted to organize a college. A few months later, the
Convention selected the first trustees for the school, who soon secured an abandoned armory building in Prescott, Arizona as Grand Canyon's first campus.

The College was chartered on August 1, 1949, and set sail a few weeks later with 16 faculty and just over one hundred students, many of them veterans.

Two years later, the College moved to Phoenix, putting down roots and putting up its first permanent buildings on a 70-acre tract in west Phoenix. Grand Canyon was fully accredited by the North Central Association of Colleges and Schools in 1968.

The College was at first considered pretty much a school for preachers, but that reputation expanded rapidly. Grand Canyon early on became famous for its teacher education program, and soon developed outstanding programs in the sciences, nursing, business, music and the arts — while maintaining its excellence in Christian Studies.

In May of 1984, the College trustees voted to prepare for transition to university status on the school's 40th anniversary in 1989.

The following men have served as President of the College:
- Willis J. Ray, 1949-50
- Leroy Smith, 1950-52
- Frank Sutton (acting president), 1952
- B.O. Herrington, 1952-54
- Glenn Eason (acting president), 1954-55
- Loyd B. Simmons, 1955-58
- Glenn Eason (acting president), 1958-59
- Eugene N. Patterson, 1959-65
- Charles L. McKay (acting president), 1965-66
- Arthur K. Tyson, 1966-72
- William R. Hintze, 1973-77
- Dillard White (acting president), 1977-78
- Bill R. Williams, 1978-present

**JANUARY TERM**

The January interim term provides an opportunity for students to concentrate on a single area of study during a three-week period. Two types of courses are offered during January Term. These courses are structured with the intent to expand the liberal arts approach through a curriculum oriented to exploration. This curricular approach is realized through course offerings that promote the opportunity for each individual to experience new places, activities, and ideas that are beyond the scope of the usual degree curriculum. In addition, students may choose to take courses offered for departmental credit which may count toward a major or minor. The January Term Class Bulletin will indicate which courses will be offered on a credit/non-credit basis and which courses will receive a letter grade.

Convocation, tours, special speakers and performances are significant features of the interim. Students are encouraged to participate in community activities related to their studies, to visit historic sites, and to make use of many other resources for learning not readily accessible during a regular academic schedule.

Three semester hours of credit are given for the January Term. Regular tuition rates are charged plus a January Term fee. For courses which include tours, additional cost is based upon expenses of the tour. Students who are enrolled for the Fall semester may pre-register for January Term. One January Term is required for each 42 hours earned in residence at Grand Canyon University.

Students not regularly enrolled in Grand Canyon University may register for the January Term the first day of classes from 8-10 a.m. and may receive a schedule of offerings by writing the Vice President for Academic Affairs.

**UNIVERSITY CAMPUS**

The University is located in the northwest area of Phoenix, the capital city of Arizona. Phoenix is near the geographical center of the state and is a thriving industrial and agricultural city with a population of over 1.6 million in the metropolitan area. Located near places of interest, such as the Grand Canyon, the Petrified Forest, Montezuma's Castle, Oak Creek Canyon, Walnut Canyon, and the Superstition Mountains, Phoenix is one of the notable winter resorts of America. The city is easily accessible over transcontinental Interstate Highways 10 and 17. Convenient airline connections are available through Sky Harbor International Airport.

The University has 70 acres available for development of its campus. The original buildings were constructed in 1951 of pumice block in a one-story cottage style. They are now used for administrative and faculty offices, the cafeteria, auxiliary classrooms and laboratories.

The Student Center and pavilion were secured largely through the efforts of students.

Grouped around a quadrangle landscaped with flowers and Arizona shrubs and trees, all the buildings afford a view of the mountains surrounding the Valley of the Sun. The campus is comfortable and provides an attractive setting for college living.

A gymnasium and the Fleming Library were constructed in 1957. A dormitory and a health center were completed in 1960.

A classroom building, another dormitory, a student pavilion, an addition to the library, and an extension to the cafeteria were completed in 1963. The bookstore occupied newly-constructed quarters in 1964 and a dormitory addition was completed in 1967. The Ethington Memorial Little Theatre was constructed in 1973. The Tell Science Building in 1977, the Wallace Building in 1982, and the Smithey-Parker Building housing administrative offices in 1983. The Dr. C.J. and Thelma Smith Arts Complex was dedicated in 1984, the Samaritan College of Nursing in 1985, and the Ray Student Services Building was dedicated in 1987.

All buildings are cooled in the summer.

**ATHLETIC FACILITIES**

Antelope Gymnasium is the home court of the 1975, 1976, and 1988 NAIA Men's basketball champions. With a seating capacity of approximately 1,000, the gym also provides facilities for the women's basketball and volleyball teams and physical education classes. It contains lockers, showers and equipment rooms for men and women, as well as office space, one classroom, and a weight room.

The men's varsity baseball team, NAIA champions in 1980, 1981, 1982 and 1986, plays at Brazell Stadium. This facility includes seating for 3,000, pressbox, snackbar, and restroom.

The women's tennis team, 1981 NAIA champions, play at the Youngker Tennis Center. Located north of the dorms, this six-court
facility was donated by the Youngker family of Buckeye in memory of their son Steven, who lost his life in military service.

In 1985 lights were installed on three courts at the Youngker Tennis Center and a heated swimming pool was opened for recreational use.

CHARLES M. COOK HEALTH CENTER

The alumni association of the University sponsored the raising of funds for the health center, erected in 1960. It is named in honor of a former University physician. The building contains a doctor's office, two treatment rooms, a nurse's office, and a reception room. It is adequately equipped to care for the most common medical needs of students, faculty and staff members.

COMPUTER CENTER

The University provides academic and administrative computing support using a VAX 11/750 computer manufactured by Digital Equipment Corporation. The computer supports both batch and time-sharing operation, using a variety of high-level languages. A microcomputer laboratory utilizing IBM personal computers/compatibles is also available to students. Word processing, electronic spread sheets, and other useful software packages are provided.

The Computer Center gives periodic seminars to introduce students to the equipment in the Center and to help students integrate computer usage into their academic activities.

DORMITORIES

Bright Angel Hall, named for Bright Angel Creek at the bottom of the Grand Canyon, was completed in 1960. It houses 60 men in a two-story, fireproof brick building. It has large furnished rooms with telephones provided in each room. There is a second floor lounge and TV room and first floor lobby and laundry facility. It has a separate guest room facility. Rachina Hall houses 28 residents and is primarily an athletic dorm for men.

East Kaibab Hall is a two-story facility, named for Kaibab Forest, and was completed in 1963. An additional wing, Kaibab West, was completed in 1967. Kaibab has one lobby, two laundry facilities, a large separate study room, and a separate guest room facility. The second floors have a lounge and TV room.

Mariposa, a dorm located adjacent to Kaibab is a single story building housing 30 residents. The Student Apartment complex built and opened in the fall of 1986 consists of 9 complexes with 153 units (90 of which are furnished units).

active in every phase of missions within Arizona and around the world. Grand Canyon University and friends have honored her life by providing the Mrs. W.C. Henderson Missionary-In-Residence furnished apartment on campus for the furthering of missionary or missionary couple who works with the Missionary-In-Residence Program.

RAY STUDENT SERVICES BUILDING

This administration building of 6,350 square foot was dedicated in 1987 in honor of Grand Canyon's founding President, Dr. Willis J. Ray. It houses Recruiting, Admissions and Records, the Business Office, and Financial Aid.

SAMARITAN COLLEGE OF NURSING

This 16,000-square-foot facility was dedicated in 1985 to Samaritan Health Service in gratitude for their support of the College of Nursing. The building contains classrooms, offices, a 120-seat lecture hall, a nursing skills lab, and a learning-resource center.

SMITH ARTS COMPLEX

This quadrangle of studio, classrooms and the Andrew P. Tell Art Gallery provides an excellent teaching facility for art students. Finished in 1984, the complex contains studios for painting, drawing, ceramics, jewelry, printmaking, sculpture, and a complete darkroom.

SMITH-BARKER BUILDING

The Smithy-Parker Building, completed in 1983, houses administrative offices, a conference room and the main university switchboard.

TELL SCIENCE BUILDING

The Tell Science Building was completed in 1977. Initial funds for construction of this facility were furnished through the generosity of Mr. and Mrs. Andrew P. Tell and the Tell Foundation of Phoenix. The building is completely equipped for laboratories in biology, chemistry, physics, and environmental science.

UNIVERSITY BOOKSTORE

The bookstore contains required textbooks, supplementary books, office and educational supplies. Imprinted clothing such as sweatshirts, tee-shirts, and caps, along with imprinted gift items, are also available. The bookstore offers other services such as special orders, class rings, and graduation supplies.

Bookstore Hours:

* Monday, Tuesday, Thursday
  8:30 a.m. - 9:00 p.m.
  8:30 a.m. - 5:00 p.m.
  10:00 a.m. - 3:00 p.m.

* Closed for chapel 10:30 - 11:30 a.m. on Mondays and Wednesdays.

WALLACE BUILDING

Dedicated in 1982, the Wallace Building was built in appreciation of A.A. and Ida May Wallace who were instrumental in constructing some of the early buildings of the campus. It houses several administrative offices.

The Grand Canyon University Foundation also maintains its offices here.

UNIVERSITY PUBLICATIONS

Class Bulletins are published for the Fall and Spring Semesters, January Term, and Summer Session.

Canyon HIWays is published by the University for the purpose of presenting the activities of alumni, faculty, staff members and students; improvements and additions to the campus; and other items of interest to schools, libraries, churches, alumni, parents of students, and other friends of the University.

THE UNIVERSITY SEAL

When the Grand Canyon College seal was adopted in 1950, two of its major components were the cross and the cactus. The saguaro cactus rises from its desert setting to signify the intellectual opportunity for Grand Canyon students, counteracting the arid mental state of uneducated man. The cross stands prominently on the horizon as a guide for spiritual enlightenment. Between the outer circle representing the earth and the inner circle representing the wheel of progress, the name of the University and its location are inscribed. The use of the seal is permitted only with approval of the President of the University.

The colors of Grand Canyon University are purple and white.

Recommended by the faculty and adopted by the trustees.
Financial Information

Student Expenses
Room and Board
Tuition, Housing, and Fees
Special Fees
Special Class Fees
Student Insurance
Refunds
Application for Refund
Refund Schedule
Financial Aid
Eligibility
Application Process
Student Responsibilities
Student Rights
Scholarships
Endowed Scholarships
Grants From Private Business, Foundations, and Organizations
Grants
Student Loans
Employment
Student Employment Services
Placement Services
Approvals
STUDENT EXPENSES

The regular school year is composed of a Fall semester, a January Term, and a Spring semester. Summer school sessions are composed of two terms of five weeks each.

The expenses of the student are due and payable at the beginning of each semester and must be paid (or satisfactory arrangements concerning them made) with the Business Office before the student's registration is official. Failure to comply with the stated policies of the Business Office could result in administrative withdrawal from classes. This includes incomplete registration, failure to meet payment arrangements, and other policies stated in the catalog. If the student is intending to rely on financial aid for payment on their account, then application for financial aid must be made at least two months in advance of need. The University will honor VISA and MasterCard charges.

Under a time payment plan the schedule is as follows:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 25</td>
<td>February 25</td>
</tr>
<tr>
<td>October 25</td>
<td>March 25</td>
</tr>
<tr>
<td>November 25</td>
<td>April 25</td>
</tr>
</tbody>
</table>

Summer I must be paid prior to Summer II. Summer II must be paid prior to the Fall semester.

Students may not receive transcripts, or participate in commencement until satisfactory arrangements have been made to clear accounts in the Business Office. The Board of Trustees reserves the right to charge all fees and charges, without notice, if necessary.

The University uses a debit-card system known as Vail-dine to enable students to purchase meals, textbooks, and other items without carrying cash or coupons with them at all times. This card contains the student's photo to prevent unauthorized use. The university Business Office encodes a dollar amount on each student's card based on what the student requests or is required to have. Dorm students, for instance, are required to purchase a certain amount of food to allow the University to fulfill its obligation to provide adequate and balanced nutrition to residents lacking cooking facilities. Other students may not request that their Vail-dine card be credited with a certain amount to enable them to conveniently purchase cafeteria meals. All students may elect to have a certain amount charged to their Vail-dine cards to cover bookstore purchases.

Whether required or requested, the amount is charged to the student's account at the Business Office and must be paid for under the same guidelines as tuition, fees, or housing (i.e., financial aid, cash, or check, or term payment options). That amount is then reflected as a credit on the Vail-dine card. When the student purchases a meal or a textbook, etc. the cost of that item is deducted from the balance available on the card. If the balance reaches zero, the card is invalid and the student must return to the Business Office and replenish the account.

The following policies apply to Vail-dine cards. Please note that the policies differ for meals as compared to bookstore purchases.

VAIL-DINE POLICIES

Vail-dine MEAL expiration policies:
1. Credit acquired during the Summer Sessions may be used during the following Fall semester.
2. Credit acquired during the Fall semester may NOT be carried over into January Term.
3. Credit acquired during January Term may be used during the following Spring semester.
4. Credit acquired during Spring may NOT be carried over into the Summer Sessions.

The cafeteria is closed when school is not officially in session (during the Christmas and Thanksgiving holidays, Spring recess, between the close of Spring semester and opening of the first Summer term, and between the end of the second Summer term and the opening of the Fall semester). Any Vail-dine meal credits need to be used within the time policy above as there are no meal refunds permitted.

Vail-dine BOOKSTORE policies:

Vail-dine bookstore credits acquired during any given time will carry from one semester to the next.

Any unused Vail-dine bookstore credit may be credited to the student's account prior to May 31st of the academic year.

ROOM AND BOARD

Linens, towels, blankets and pillows are furnished by the student.

The schedule of charges for regular semesters and terms appears on next page. For holidays and guests, these provisions are made: Room rent is charged at the rate of $5 per day for students who stay in the dormitories when school is not officially in session (dining Christmas and Thanksgiving holidays and Spring recess, between close of Spring semester and opening of the first Summer term, and between end of the Summer term and opening of the Fall semester). For one guest, the charge is $10.00 per night.

A student is charged board at the time of registration. The cafeteria is closed during Thanksgiving, Christmas, and Spring holidays.

Individual meals may be purchased for cash at moderate cost at the cafeteria by community members, students, faculty, apartment residents, staff, and guests.

TUTION, HOUSING, AND FEES

REFER TO INSERT FOR CURRENT CHARGES

ACADEMIC YEAR

Tuition, per semester hour:
Scholarships do not apply towards Summer Sessions.

Audit fee, per semester hour:
Scholarships do not apply.

General fees:

9 hours or less, per semester
8 hours or less (parking included), per semester hour
Summer (per 5-week term)

Parking:
Fall and Spring semesters
Summer Sessions

Room (Double Occupancy):
Reserve deposit (Nonrefundable when the student moves out of the dormitory permanently). Should the student not enroll, this deposit may be refunded if the intention not to enroll is made known to the University by August 1 for the Fall semester or by January 1 for the Spring semester.

Fall semester
Spring semester
January Term (15% discount given for 3 persons to a room)
Summer Session, per week

Board:
Fall and Spring semesters (minimum charge)
January Term
Summer Session, per session

SPECIAL FEES

REFER TO INSERT FOR CURRENT CHARGES

Application (non-refundable):
Undergraduate
Graduate

Academic Check-in, per page
Academic Regalia

Additional Placement Brochure, each
Complete Withdrawal
Dormitory Dues
Drop/Add fee
Employment Placement Service
Guest Housing (School not in session), per day
Guest Housing (School in session), per day
Graduation Curriculum Change
Incomplete Records
Incompletes Registration
Interest charges on unpaid balance at Business Office, per month

January Term (If student pre-registers for January Term, fee is reduced by $5.00 - continuing students only)
Late examination
Late registration
Placement
Post Office box rental, per semester
Registration of second car
Replacement of Vail-dine card
Returned checks, per check
Special examination
Special examinations, per semester hour or credit equivalent
Special Study (Independent Study, Internship/Practicum, and Reading & Conference)
Statement of Intent to Graduate (Undergraduate)
Statement of Intent to Graduate II (Graduate)
Student Employment Placement
Student Identification
Student Insurance, sickness & accident, per semester (approximately)
Summer sessions (first one free), each additional
University Systems Facilities
Unofficial Graduation check list
Writing Proficiency Examination

SPECIAL CLASS FEES

Certain university classes require payment of fees or deposits for materials, breakage and/or rental. Refer to the current Class Bulletin for class fees.

STUDENT INSURANCE

A group plan for accident and sickness insurance for Grand Canyon University students is available and provides for payment of medical and hospital charges according to a schedule which is furnished each student planning to attend the University. All students living in the dormitory must have this or comparable insurance, and all other students are encouraged to carry such insurance. All international students are required to carry medical and hospitalization insurance. The University cannot
Refunds are determined by the date the student files a completed withdrawal form with the Business Office. The minimum charge for any student withdrawing from school is $25 regardless of whether the student has attended classes.

All refund decisions are final, and all students are notified, unless called for on or before June 30 of the university year for which such refunds are made. Should June 30 fall on Sunday or on a day when the Business Office is not open, the refund is determinable on the next business day.

**REFUND SCHEDULE**

<table>
<thead>
<tr>
<th>Fall and/or Spring Semester and Evening School refunds</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td></td>
</tr>
<tr>
<td>During first week of classes</td>
<td>100% of tuition &amp; fees</td>
</tr>
<tr>
<td>$ 25.00 complete withdrawal</td>
<td></td>
</tr>
<tr>
<td>During second week of classes</td>
<td>80% of tuition</td>
</tr>
<tr>
<td>$ 30.00 for one or more hours</td>
<td></td>
</tr>
<tr>
<td>During third week of classes</td>
<td>60% of tuition</td>
</tr>
<tr>
<td>During fourth week of classes</td>
<td>40% of tuition</td>
</tr>
<tr>
<td>During fifth week of classes</td>
<td>20% of tuition</td>
</tr>
<tr>
<td>After five weeks</td>
<td>No refund</td>
</tr>
<tr>
<td>Fees</td>
<td>Fees are not refundable after the first week of classes.</td>
</tr>
<tr>
<td>Minimum dormitory rental charge</td>
<td>$ 100.00</td>
</tr>
<tr>
<td>Residence between two and three weeks</td>
<td>60% of charge</td>
</tr>
<tr>
<td>Residence between three and four weeks</td>
<td>40% of charge</td>
</tr>
<tr>
<td>Residence between four and five weeks</td>
<td>20% of charge</td>
</tr>
<tr>
<td>After five weeks</td>
<td>No refund</td>
</tr>
<tr>
<td>Room</td>
<td>No refund given without proper dorm checkout form.</td>
</tr>
<tr>
<td>Minimum charge—January withdrawal</td>
<td>$ 40.00</td>
</tr>
<tr>
<td>Board</td>
<td>Maximum of $100 refunded upon withdrawal before January 1. No refund for off-campus courses or tours other than 10% (up to $25 maximum) of Vale charge.</td>
</tr>
<tr>
<td>Summer School refunds</td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td></td>
</tr>
<tr>
<td>Registration without attendance (minimum charge)</td>
<td>$ 10.00</td>
</tr>
<tr>
<td>Attendance 1-3 days</td>
<td>75% of tuition</td>
</tr>
<tr>
<td>Attendance 4-5 days</td>
<td>50% of tuition</td>
</tr>
<tr>
<td>Attendance 6-7 days</td>
<td>25% of tuition</td>
</tr>
<tr>
<td>After 7 days</td>
<td>No refund</td>
</tr>
</tbody>
</table>

**FINANCIAL AID**

The primary purpose of student financial aid is to provide resources to students who otherwise would be unable to pursue a postsecondary education. The primary responsibility for meeting University costs lies with the student and family. The University should be expected to assist only when the family is unable to meet the full cost of attendance.

Additionally, the University makes an effort to provide scholarships and awards to students on the basis of outstanding performance. For clarification purposes, the terms "scholarships" and "grants-in-aid" will be used when achievement and/or merit are the primary consideration in determining eligibility.

**ELIGIBILITY**

To be eligible for financial assistance, a student must be enrolled at least half-time in a degree-granting course of study, in good standing and making satisfactory academic progress, and not be in default or delinquent on any loan granted by the University, state, or federal government. Also, he/she must not owe a refund on grants previously received under the Pell (Basic) Grant, the Supplemental Educational Opportunity Grant, or the State Student Incentive Grant.

**APPLICATION PROCESS**

Grand Canyon prefers the American College Testing (ACT) Family Financial Statement (FFS) as the primary form of application; however, any of the following forms may be used to apply for financial aid: (1) ACT Family Financial Statement (FFS) which can be used to apply for most aid programs including the Pell (Basic) Grant. A fee is charged by the processor. The ACT code number is 0092 for Grand Canyon University. (2) College Scholarship Service (CSS) Financial Aid Form (FAF) can also be used to apply for most aid programs including Pell (Basic) Grant. A fee is charged by the processor. The CSS code number is 4331 for Grand Canyon University. (3) The Federal Financial Aid Application is for the Pell (Basic) Grant only and no fee is required.

You will need to allow four to six weeks for processing on any of the above applications. Transfer students should also submit a Financial Aid Transcript (FAT) from each college or university attended regardless of whether or not financial aid was received. An academic transcript must be on file in our Admissions-Records Office from each previous college or university attended.

**PREFERENCE/DEADLINE DATES**

Rather than operating under strict deadlines, the Financial Aid Office makes an effort to provide funds to students as long as funds are available. However, priority dates do exist. A student's file should be complete at least sixty days prior to the academic period in which aid is desired.

Students interested in priority consideration must submit an application no later than April 15 before anticipated enrollment in the Fall, and October 15 before anticipated enrollment in the Spring. Applications received after that date will be reviewed on a "first come, first served" basis.

**DETERMINATION OF FINANCIAL AID**

After the Financial Aid Office has received the appropriate forms listed above, the student's financial need and the types of awards for which he/she qualifies will be determined from the information obtained from the FAF, FAF or Pell Grant Application. Financial need is the difference between the cost of attending the University and the resources available to the student. Thus:

- Cost of Attendance minus - Parents' Contribution minus - Student Contribution equals FINANCIAL NEED

All students will be expected to contribute toward their cost of education from summer earnings and from employment during the academic year. The Financial Aid Office will make every effort to meet the financial need of each student. A Financial Aid Officer is available to discuss the student's contribution as well as the family contribution if questions should arise.

**AWARD PROCEDURES**

For financial aid programs in which need is the factor in determining eligibility, the Pell (Basic) Grant is considered first. If a student's need is not fulfilled with the Pell Grant, the Supplemental Educational Opportunity Grant (SEOG) is the next form of aid considered. Employment is granted unless it appears to be detrimental to the student's academic performance or it would be impractical for the student to work because of...
limited eligibility. If it is not in the student's best interest to work, or if employment alone will not complete eligibility, other types of grants (gift aid) will be considered as available. When gift (grant aid) funds have been depleted, loans will be the source used to fill the remaining need. All packaging of financial aid is on a first-come, first-served basis.

FINANCIAL AID AND ACADEMIC LOAD

Undergraduate students must be enrolled for at least 12 hours in order to be considered full-time students. Graduate students must be enrolled for at least 9 hours to be considered full-time students and receive full financial aid benefits. Students enrolled part-time (not less than 6 hours) will be eligible for a prorated portion of their financial aid.

KEEPING THE FINANCIAL AID OFFERED

Students who are receiving financial assistance through the Financial Aid Office and who receive additional outside assistance must report this fact to the Financial Aid Office at once. Address changes and changes in the academic course load must also be reported. A statement of certification which lists the various changes in student status that should be reported to the Financial Aid Office is signed by the student upon application.

SATISFACTORY ACADEMIC PROGRESS

Qualitative: Students are required to be making satisfactory progress toward their educational objectives in order to be eligible for all institutional, federal and state financial aid. (Grants-in-aid will be based on the requirements of the NCA or NAIA.) Transfer students are considered to be making satisfactory progress if they maintain a 2.0 ("C") grade point average and do not have excessive course drops. Continuing Grand Canyon University students are permitted one semester of scholarship probation but must regain at least a 2.0 ("C") grade point average thereafter or they will be placed on Financial Aid Suspension and no award will be made until the student has brought his/her cumulative GPA up to 2.0.

Quantitative: Excessive course withdrawal is not permitted. Students enrolled as full-time (12 hours or more) must complete the semester as a full-time student. It is important to note that in determining a student's quantitative progress, his/her course of study, Grand Canyon University will consider all periods of the student's attendance at the institution regardless of whether the student received financial aid for those periods.

<table>
<thead>
<tr>
<th>After this number of academic years</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>A full-time student must have earned at least this number of credits</td>
<td>24</td>
<td>50</td>
<td>75</td>
<td>102</td>
<td>128</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A part-time student must have earned at least this number of credits</td>
<td>12</td>
<td>24</td>
<td>37</td>
<td>50</td>
<td>63</td>
<td>75</td>
<td>89</td>
<td>102</td>
<td>115</td>
<td>128</td>
</tr>
</tbody>
</table>

Students failing to complete the quantitative satisfactory progress requirements within an academic year will be placed on Financial Aid Suspension until the deficiency is made up. Students failing to meet the qualitative satisfactory progress will not be eligible to receive federal financial aid. A student may appeal Financial Aid Suspension on the basis of circumstances which prevent him/her from making satisfactory progress. Detailed guidelines concerning the appeal process are available on request from the Financial Aid Office.

REFUND POLICIES

Information concerning unearned tuition and fees or other refundable portions of costs paid to Grand Canyon University can be obtained in the Financial Aid Office. Students who are recipients of scholarship and financial aid funds will be required to repay a prorated portion of the financial assistance received through the Business Office when they drop below award level or withdraw from school.

STUDENT RESPONSIBILITIES

IT IS YOUR RESPONSIBILITY TO:
1. Review and consider all information about the school's program before you enroll.
2. Accurately complete all application forms and return them to the appropriate office/agency on time.
3. Pay special attention to and accurately complete your application for student financial aid. Errors can result in long delays in the receipt of financial aid. Intentional misreporting of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
4. Return all additional documentation, verification, corrections, and/or new information requested by the Financial Aid Office or the agency to which you submitted your application.
5. Read and understand all forms that you are asked to sign and keep copies of them.
6. Accept responsibility for all agreements you sign.
7. If you have a loan, notify the lender of changes in your name, address or school status.
8. Perform the work that is agreed upon in accepting the University Notification of Award.
9. Know and comply with deadlines for application and reapplication for aid.
10. Know and comply with the University's refund policy.
11. Maintain good standing and satisfactory academic progress.

STUDENT RIGHTS

YOU HAVE THE RIGHT TO:
1. Know what financial assistance is available, including information on all federal, state, and institutional financial aid programs.
2. Know the deadlines for submitting applications for each of the financial aid programs available.
3. Know the cost of attending the institution and the University's refund policy.
4. Know how the University determines your financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget.
5. Know what resources (such as parental contribution, other financial aid, your assets, etc.) are considered in the calculation of your need.
6. Know how much of your financial need, as determined by the institution, has been met.
7. Request from the Financial Aid Office an explanation of the various programs in your student aid package. If you believe you have been treated unfairly, you may request reconsideration of the award which was made to you.
8. Know what portion of the financial aid you received must be repaid, and what portion is grant aid. If the aid is a loan, you have the right to know what the interest rate is, the total amount that must be repaid, the payback procedures, the length of time you have to repay the loan, and when repayment begins.
9. Know how the University determines whether you are making satisfactory progress, and what happens if you are not.

SCHOLARSHIPS

The University offers a number of scholarships to exceptionally well-qualified students. The student must take a minimum of twelve semester hours to qualify as a full-time student and be eligible for a scholarship. All scholarships are available for the regular academic year to qualified students, but not for the Summer terms, for a maximum of eight semesters. Grade point average requirements for all scholarships are monitored by the Financial Aid Committee. Unless otherwise specified, the basic academic requirements for any of these scholarships is a 2.0 GPA. Students interested in priority consideration must submit a scholarship application no later than April 15 before anticipated enrollment in the fall, and October 15 before anticipated enrollment in the spring. Applications received after that date will be reviewed on a "first-come" basis. Application must be made to the Financial Aid Office not later than the last day of late registration in the Fall semester.

ACADEMIC SCHOLARSHIPS

Students who graduate in the top 10% of their high school class, or who are in the top 10% of their class at the end of their 6th or 7th high school semester may qualify for academic scholarships. Students may also qualify with an ACT composite or SAT combined score at or above the 95th percentile nationally. A student who has earned more than 12 hours of college credit may not qualify for the academic scholarship, unless the hours were taken while the student was concurrently enrolled in high school. A student who has earned fewer than 12 hours may still qualify, regardless of high school.
graduation date. The scholarship is renewable for the full four years, provided no GPA is maintained, renewal application is filed before the priority deadline, and the student maintains full-time enrollment.

STUDENT HONORS SCHOLARSHIPS
Transfer students who have earned at least 24 semester hours with a transferable, college level credit with a cumulative GPA of 3.5 or better for all work attempted may qualify for Student Honor scholarships. This scholarship will also be awarded to students who have earned fewer than 24 credits if they ranked in the top 10% of their high school class and have a GPA of 3.5 or better for all college level work attempted. To renew the scholarship, the student must maintain a Grand Canyon GPA of at least 3.0, file a renewal application before priority deadline, and maintain full-time status. The Grand Canyon GPA is figured only on work attempted at the University; transfer work is not included. Students who drop a semester and take more than 12 hours at another institution must requalify for the scholarship.

GRADUATE FELLOWSHIPS
Students enrolled in the Master's Degree programs may qualify for Graduate Fellowships. Eligibility is based upon the student's GPA, a letter of request submitted to the College of Education, and future goals. The student must also enroll for at least nine hours. Exceptions may be made at the discretion of the College of Education Dean. Fellowships may be renewed at the discretion of the Dean provided the student maintains a 3.0 GPA.

DEPARTMENT FELLOWS
Qualified students are selected to serve as teachers' fellows in the various departments. This is an honorary designation and involves assisting the professor in significant ways. Each full-time member of the teaching faculty is entitled to one such fellow. In order for a qualified student to be selected, the student must be at least a junior and be majoring (in some cases, minor) in the department in which he/she serves. The student must have at least a 3.0 GPA in the department as well as in college work.

WORK GRANTS
Students may qualify for work grants in publications, intramural sports, and dormitory assistants. Information can be obtained from the Office of Student Development on specific requirements and stipends available.

OTHER INSTITUTIONAL SCHOLARSHIPS, AND GRANTS-IN-AID
Special-ability scholarships are available in the areas of Business, Nursing, Art, Drama, Speech, and Music. Application must be made through the college dean/chairperson or faculty member in charge of scholarships in the student's area of interest. Recipients of such scholarships will be expected to maintain at least a 2.0 GPA and be enrolled for full-time studies. Additional requirements may be placed on the student by the department awarding the scholarship. A limited number of basketball, baseball, golf, soccer, volleyball, cross-country and tennis-grants-in-aid are made available. Funding is determined by the NCAA or NAIA regulations and institutional policy. For further information, the students should contact the athletic coach in the area of his/her interest.

ENDOWED SCHOLARSHIPS
Many alumni and friends of Grand Canyon University have endowed scholarships or have made commitments to annually fund scholarships for specific areas of study. The Financial Aid Office coordinates the awarding of the scholarships. Students who file for financial aid have automatically applied for the scholarships which include demonstrated need as one of the criteria for award. Unless otherwise stipulated, the basic academic requirement for any of these scholarships is a 2.0 GPA. (The University has other endowed scholarships that have not attained the $10,000 level presently required by Board policy for inclusion in the catalog.)

The Tribute Fund contains numerous memorial funds not large enough to be managed individually. Earnings from these funds are usually applied to the operating budget of the University, except when specific restrictions have been expressed by the donors. Contributions to this fund have been given in honor of or in memory of loved ones or friends.

Charles E. Arant, Jr. Memorial Scholarship is an endowed scholarship provided by the wife and daughters of Mr. Charles E. Arant, Jr., a businessman of Greenville, Texas. The scholarship is to aid students majoring or minoring in business. The recipient shall be at least a sophomore by classification for the applicable school year, and may have at least a 3.0 GPA on all academic work.

Eunice L. and Eunice Babb Scholarship Fund is a trust established by Ernest I. and Eunice B. Babb to provide scholarships for worthy students in need of financial assistance.

Betty Wallace Beamer Memorial Fund is an endowed scholarship established by Mr. and Mrs. Edward D. Wallace. Earnings from this fund are awarded to a sophomore or upper-class student who has demonstrated good scholarship and citizenship and has a concentration in humanities with a major interest in art.

Beck Memorial Scholarship is an endowed scholarship created by the alumni of the University in honor of Drs. Roland and Betty Beck and their service to Grand Canyon University. Both were members of the original faculty and Dr. Roland Beck was the second dean of the College and served as the head of the Education Department. The scholarship is intended for students who show financial need.

Woodrow and Letress Berryhill Scholarship is an endowed scholarship created by the Berryhills to aid Christian students who show financial need.

Henry and Dolly Brece Memorial Scholarship is an endowed scholarship made available by Mr. and Mrs. Guy Stoker of Snyder, Texas, in memory of Mrs. Stoker's parents. This scholarship assists Christian students who show financial need.

Business Student Achievement Fund is an endowed account for qualified business students who have earned the opportunity to compete in regional and national competitions. Students qualify by winning local and state competitions relative to the business subjects they are taking. Funds for travel and lodging expenses are available only for students competing in regional and national competitions.

Vera Butler Scholarship is an endowed scholarship established with gifts honoring Dr. Vera Butler, former professor at Grand Canyon College. Scholarship funds are awarded to a senior woman majoring in elementary education who has demonstrated good scholarship, character, and citizenship.

Cook/Bishop Memorial Presidential Grant is an endowed scholarship provided by Truman Cook and Bula Bishop, in memory of their mothers to aid Christian students who show financial need.

G.D. Crow Memorial Scholarship is an endowed scholarship established by Mrs. Hilton Jones Crow, family and friends in memory of this faithful Christian layman of Tucson. This endowed fund provides an annual award to a qualified speech major.

Hilton Jones Crow Scholarship is an endowed scholarship initiated by Dr. Joyce Parker, and endowed by friends and family. Earnings from the endowment are used to assist upperclass students who have maintained a 3.0 GPA. Recipients must be in theministry in history, creative writing or one of the ministries in a Southern Baptist Church, or in the state or national Southern Baptist Convention. Recipients must do two research papers each year for the archives of the Historical Commission of the Arizona Southern Baptist Convention.

Keith and Mary Sue Davis Scholarship is an endowment available to a qualified business major.

Evans-Griffin Scholarship is an endowed scholarship provided by Edna Hoffman Evans and Jewell Griffin of Phoenix, Arizona. This award is available to qualified junior women majoring or minoring in education who demonstrate financial need.

David H. Eaton Scholarship is an endowed fund provided by family and friends of Mr. Eaton, a Christian churchman and businessman to aid a Christian student with financial need. It is available to a junior with a GPA of 3.0.

Wesley and Lola Freeburg Scholarship Fund is an endowed scholarship established by family and friends of Mrs. Lola Freeburg. Eligible students must demonstrate financial need, exhibit good moral character, and maintain a normal academic course load.

Jim and Claire Goins Living Memorial is an endowed scholarship established by family and friends in 1981 following the death of Reverend Jim H. Goins, minister of the gospel of Christ, missionary and friend of students. Claire K. Goins, their children and grandchildren initiated the endowed scholarship to benefit a ministerial student whose vocational goal is to serve as a
Carl Paetz Memorial Scholarship is an endowed scholarship sponsored by the wife and son of the late Carl Paetz of Muscatine, Iowa, and Scottsdale, Arizona. The award is available to a qualified business major or minor.

Crystle Paetz Nursing Scholarship is an endowed scholarship provided by Mrs. Crystle Paetz and her sons, Carl, Jack, Gene and Bill Paetz to aid third year nursing students. Receipts must maintain a 2.5 GPA, and be recommended by the College of Nursing dean. The funds will be used to assist a Christian student who shows financial need.

Joyce Daily Parker ASTD Award is an endowed scholarship established by students of the Sun Chapter, Inc. of the American Society for Training and Development in honor of Dr. Parker’s many years role as the first female recipient of the prestigious Gordon M. Bliss Award in 1972. A cash award is given annually to the outstanding Human Resources Development graduate. Selection is made by the Human Resources Development Program Director and the Valley of the Sun/ASTD Scholarship Committee.

Dr. and Mrs. Robert Pickering Scholarship is an endowed fund provided by Dr. and Mrs. Robert Pickering of Phoenix, Arizona. The annual award to an upperclassman is based on Christian commitment and academic progress in psychology or the social sciences.

Edward W. Pollock Family Scholarship is an endowed scholarship provided by Mr. Pollock’s family. The scholarship is to aid a student whose vocational goal is to teach, or be involved in some area of vocational Christian service. The recipient must maintain a 2.5 GPA on all academic work after the first year.

Mack D. and Bonnie Jean Reagan Business Scholarship is an endowed scholarship established in 1979 by Mrs. Bonnie Jean Reagan, Drs. Lowell B. and Joyce Parker, and friends in memory of the late Mack D. Reagan, an outstanding entrepreneur from Carthage, Mississippi. This trust will provide scholarships for business majors in need of financial assistance who show promise of future success in business.

C.J. and Thelma B. Smith Ministerial Scholarship was made available by Mr. and Mrs. C.J. Smith, Sr. Earnings from the fund will be utilized to assist ministerial students with financial need.

Jerry D. Smithey Business Scholarship was established in 1979 by Mrs. Sarah Elizabeth Smithey, Dr. Lowell B. Parker and friends to honor Jerry D. Smithey, a Phoenix Christian businessman, for his enterprise achievements and for his support of Christian work in Arizona. Income from this trust is to provide scholarships for innovative students majoring in business who have demonstrated good citizenship and are in need of financial assistance.

A.L. Stoker Memorial Scholarship is a permanently endowed scholarship fund provided by Mr. and Mrs. A.L. Stoker of Snyder, Texas. The funds will be used to assist Christian students who show financial need.

Roy F. and Helena H. Sutton Scholarship Fund is an endowed scholarship made available by Roy F. and Helena H. Sutton for the benefit of ministerial students with financial need.

John B. Will and Fred and Norma Pfeiffer Scholarship is an endowed scholarship established by Buel R. Will of Conroe, Texas, to aid qualified students in attaining their educational goals. The recipient must be an American citizen, maintain a 3.0 GPA and show financial need.

Helen Youngs Memorial Fund is an endowed scholarship provided by relatives and friends of Helen Youngs and made available to Christian women students with financial need.
ASTD Scholarship. The American Society for Training and Development, Sun Valley Chapter, has provided funds for designated students in the Human Resources Development program. Applications for these grants may be obtained from the Financial Aid Office.

Farmers Insurance Group of Companies Scholarship. Annually, the Farmers Insurance Group of Companies make available funds to be awarded to students in the areas of mathematics, business administration, personnel, and other areas related to the insurance field. Recipients must have achieved sophomore standing and maintained a minimum 2.5 GPA.

First Interstate Bank of Arizona, N.A., has established with Grand Canyon University a scholarship fund to assist qualified business majors and minors. Students receiving the scholarship shall have a 3.0 GPA for the prior two semesters, and be recommended by the business faculty.

Howard Relfo Memorial Scholarship is an endowed scholarship provided by Thunderbird Bank, Inc. in memory of their late Chairman of the Board. This award is to aid an accounting major recommended by the major professor, and administered by the Financial Aid Office.

Dorothea Van Deusen Opdyke Scholarship is a fund used to aid students who are natives to “mountainous areas” of the United States.

ROTC SCHOLARSHIPS

Air Force and Army ROTC scholarships are available to Grand Canyon University students. Each scholarship provides full tuition as well as an allowance for fees, and curriculum required textbooks. In addition, students receive a non-taxable $100 allowance each month during the school year while on scholarship status. Students not on ROTC scholarship but enrolled in the last two years of ROTC also receive the $100 allowance. Scholarships are available on a 4-, 3½-, 3-, 2½-, 2-year basis. To qualify for 4-year scholarships, students must be U.S. citizens and submit an application prior to December of their senior year of high school. For information contact the Air Force or Army ROTC detachments at Arizona State University.

ARIZONA SOUTHERN BAPTIST CONVENTION, CHURCH-RELATED VOCATIONS INTERNSHIPS

Those eligible to apply are Grand Canyon University students pursuing church-related vocations as pastors, ministers of education, ministers of music, ministers of youth, missionaries related to Southern Baptist denominational missions agencies, and vocational workers with Southern Baptist missions education agencies. Those applicants who already have an undergraduate degree in any field are ineligible for this scholarship.

The purpose of this scholarship is to encourage and assist church-related vocational ministry students in fulfilling their Biblical calling by furthering their training at Grand Canyon University.

Applications and information regarding eligibility for this program may be obtained from the Arizona Southern Baptist Convention, located at 400 West Camelback Road, Phoenix, Arizona 85013. Applications must be submitted before July 1 for the Fall semester and January 1 for the Spring semester.

GRANTS

Grants are outright gifts of money and are awarded on the basis of financial need. A student's financial aid package may include grant money whenever guidelines and funding levels permit.

PELL GRANT

 Pell Grants (formerly called Basic Educational Opportunity Grant) are made available to undergraduate students only and are the “floor” of the student’s financial aid package. All other financial aid awarded will be in addition to the Pell Grant. The maximum Pell Grant eligibility for each student is not more than one-half the actual cost of attending the University less the amount the student or his/her family is able to contribute toward the student’s education. The student’s eligibility is determined by a schedule developed by the Department of Education, Washington, D.C. Students who are eligible for a Pell (Basic) Grant must make satisfactory progress to receive this award. Students may apply for this grant by using the FFS or FAF form, or by obtaining a Pell (Basic) Grant application from the Financial Aid Office. Applications must be submitted annually. Upon receipt of the Student Aid Report (SAR), all three copies must be mailed to the Financial Aid Office for further processing.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG)

The SEOG provides financial aid to undergraduate students who, without this grant, would be unable to continue their education. Grants may range from $100, or one-half the student need, but not to exceed $4,000 per year. The application procedure is described under the “Financial Aid Application Process” section.

STATE STUDENT INCENTIVE GRANT (SSIG)

These are grant funds for Arizona residents available from federal, state and institutional sources to assist deserving students who have financial need. Grants may range from $100 to $2,500 per year. The SSIG may be awarded to graduate students who demonstrate need. Application procedure is described in the “Financial Aid Application Process” section.

STUDENT LOANS

Loans are often part of a financial aid award package. They provide Grand Canyon University students with an opportunity to defer part of their educational costs by borrowing now and paying later. Although there is much discussion on the debt burden, the Financial Aid Office is of the opinion that the loan debt was contracted so the student could invest in himself or herself. If the student has invested intelligently and works to make use of the newly acquired abilities, the debt cost will be recouped many times. Only students who make a poor educational and/or occupational choice or effort will find the burden of repayment a hardship.

CARL D. PERKINS/NATIONAL DIRECT STUDENT LOAN PROGRAM (NDSL)

The NDSL provides long-term loans for U.S. citizens and permanent residents. The amounts awarded vary, depending on financial need, but cannot exceed $4,500 for the first two years, $9,000 for the undergraduate years, or $18,000 for a combination of undergraduate and graduate study. No interest is charged, nor is repayment required, while the borrower is enrolled in at least one-half of the normal academic load. Payments begin nine months after the borrower ceases to be enrolled, or is enrolled less than half-time, at an interest rate of 5%. Loan repayment must be completed within a 10-year period at a minimum repayment rate of $30 per month. Under certain circumstances a portion of the loan may be cancelled for designated public service. To be considered for this loan, a student must file a Family Financial Statement (FFS) with the American College Testing or a Financial Aid Form (FAF) with the College Scholarship Service.

STAFFORD/GUARANTEED STUDENT LOAN PROGRAM (GSL)

These loans are secured from an off-campus lending agency such as a bank, credit union, savings and loan association, or insurance agency. An undergraduate student may borrow up to $2,625 for each of the first two years of undergraduate study, and $4,000 each of the remaining two years of undergraduate study, up to an aggregate maximum of $17,250. Also, a graduate student may borrow up to $7,500 per year to an aggregate maximum of $55,750 which will include any loans made at the undergraduate level. The current interest rate is 8% while in school and through the 6th year of repayment; 10% 5th year and beyond with a 5.0% loan origination fee. Repayment begins six months after the borrower ceases to be enrolled at least half-time with monthly payments of not less than $50. To qualify for this loan, the student must be accepted for enrollment, or if enrolled, must be making satisfactory academic progress in a degree-granting course of study, and enrolled for at least one-half of the normal academic course load. Applications are available from either the lender or the Financial Aid Office.

PLUS LOANS AND SUPPLEMENTAL LOANS FOR STUDENTS (SLS)

PLUS loans are for parent borrowers; SLS’s are for students. Both loans provide additional funds for educational expenses and, like the Stafford/GSL, are made by a lender such as a bank, credit union, or savings and loan association. The PLUS enables parents to borrow up to $4,000 per year, to a total of $20,000, for each child who is enrolled at least half-time and is a dependent student. The SLS allows graduate students and independent undergraduates to borrow up to $4,000 per year, to a total aggregate maximum of $20,000. The SLS is in addition to the GSL limits. The interest rate on loans made after July 1, 1988 is set at 10.45%. The interest rate for the 1989-90 award year will be determined in June 1989. SLS and PLUS borrowers must begin repaying interest within 60 days after the last full-time year of study, unless the lender agrees to let the interest accumulate until the deferment ends.
Before the PLUS or SLS can be awarded, a determination must be made to see if the student is eligible for the Stafford/GSL. The Financial Aid application procedure is described under the "Financial Aid Application Process" section. (See page 19.)

**EMPLOYMENT**

Students who are unable to meet all of their financial need requirements and do not wish to borrow money may seek employment. The student's capability to work may be affected by several factors including class schedules, grade point average, and desire. In no case should employment be used as an excuse for low grades.

**COLLEGE WORK-STUDY PROGRAM (CWS)**

This program provides part-time employment for U.S. citizens and permanent residents who are at least half-time students and have demonstrated financial need on the FAF or FFS. The maximum amount a recipient can earn under this program is determined through an evaluation of the FFS or FAF. General wage policies are established by the University within the guidelines established by the U.S. Department of Education. Work-Study students are not eligible for fringe benefits such as holiday, vacation, or sick pay and are paid on an hourly basis. The application procedure is described under the "Financial Aid Application Process" section.

**JOB LOCATION AND DEVELOPMENT PROGRAM (JLD)**

Designed to develop off-campus jobs for students.

**STUDENT EMPLOYMENT SERVICES**

Every effort is made to assist students in obtaining part-time employment. Under ordinary circumstances, a student who plans to work should have enough money in advance for the first semester.

Numerous jobs are available for both men and women students. Campus jobs include the following: secretaries, switchboard operators, custodians, cafeteria helpers, laboratory assistants, lawn maintenance workers, building maintenance personnel, library assistants, accompanists for the Music Department, and residence assistants. Grand Canyon University participates in the Work-Study Program. Eligible persons interested in such employment should contact the Student Employment Office. (Note: College Work-Study is a federal need-based aid program and eligibility is determined by the Financial Aid Office.)

In addition to campus employment, a variety of off-campus jobs are available. Student Employment Services assists in finding these jobs for any student enrolled in Grand Canyon University. There is no fee for using the part-time off-campus employment service.

**PLACEMENT SERVICES**

Student Employment Services also offers placement services to graduates or former students who have completed a minimum of 12 credit hours at the University. Every effort is made to aid current students, graduates and former students in achieving their career goals. A one time fee is charged to students seeking full-time employment with Student Employment Services.

Services of the Student Employment Office include: providing information concerning techniques of searching for jobs, processing applicant and employer requests, posting job vacancies on campus bulletin boards, providing placement brochures for prospective employers, and providing information about prospective contact with the applicant and the prospective employer. Students are guided through the process of finding a job and given openings rather than being placed in a job. Contact Student Employment Services at (602) 569-2831 for more information.

Education Placement Services are available through the College of Education. This office serves people who have completed the Teacher Education Program at Grand Canyon University. Correspondence should be addressed to the Director of Education Placement.

**APPROVALS**

Grand Canyon University is approved for training eligible students in the following government programs: The Department of Education Title IV programs; Veterans Education, Indian Health Service, Vocational Rehabilitation, Tribal Agencies, and the Bureau of Indian Affairs.
STATEMENT OF PRINCIPLES

The mission of Grand Canyon University is to provide an excellent education in the liberal arts and sciences for qualified students regardless of national origin, race, creed, or religious beliefs. Since Grand Canyon University is a Christian liberal arts university, it acknowledges a special responsibility in providing students with an opportunity to enjoy balanced and fulfilling experiences in a Christian context.

The faculty, administration, trustees, and students have worked together throughout the history of the University to establish and maintain a harmonious balance in fulfilling the intellectual, spiritual, and social objectives of the University in a viable academic climate. The result has been that students have exhibited a high sense of purpose and exemplary dedication to serving the needs of mankind.

Students, faculty, and staff members have spent countless hours in building such facilities as the gymnasium, the student center, the intramural and recreational areas, the bookstore and game room, the library, the parking areas, and campus landscaping. This cooperative endeavor has created a wholesome climate on campus and has maintained warmth, closeness, and unity of fellowship which can best be described as a family relationship.

Students and faculty members likewise experience genuine satisfaction as together they seek to discover and confront truth and as they search for solutions to problems involved in the human predicament. The words of the Alma Mater summarize the attitude and spirit of Grand Canyon University:

Hail to thee, Grand Canyon College
Alma Mater mine.
Set amidst the desert's glory,
Highest praise to you.
So to God our hopes aspiring.
With truest pledges.
Striving, seeking, finding, serving
God and all mankind.

In anticipation of a continuing commitment to the general purpose and specific objectives of Grand Canyon University as stated elsewhere in the catalog and to the spirit of the University which has prevailed since its founding, the student body, the faculty, the administration and staff, and the board of trustees affirm their dedication to fostering those activities which will aid in fulfilling the responsibilities and commitments of Grand Canyon University and further pledge themselves to discourage and, if necessary, prohibit activities which might interfere with the fulfillment of the ideas and programs of the University.

ACTIVITIES

INTRAMURAL ATHLETICS
During the regular academic year, a program of intramural sports is provided, including such activities as volleyball, tennis, badminton, basketball, flag football, and softball.

DRAMA AND SPEECH ACTIVITIES
Opportunities for dramatic and speech participation are available in plays, operas, and intercollegiate forensics and debate.

MUSICAL PROGRAMS
Students from the entire University combine with music majors and minors in performing in choirs, wind ensemble, jazz bands, chamber ensembles and orchestra, handbells, a guitar ensemble and opera and Broadway musicals each year.

The University Chorus and the Women's Chorus are non-auditioned ensembles open to all interested students of the University (pre-requisite: instructor's approval). Membership in all other ensembles will be determined by audition. For more information, please contact the College of Performing Arts.

CHAPEL ATTENDANCE
Chapel provides an opportunity for the University community to share together in meaningful spiritual, cultural, and intellectual programs. Chapel meets on Monday and Wednesday at 10:40 a.m. and at other times given on a supplementary schedule. All students taking nine or more hours are required to attend a minimum of twenty chapel programs per semester. Evaluation of attendance is cumulative and must be completed before a diploma is issued. Exception to this requirement is made for students enrolled in evening classes only. January Term courses are not included in the 9-hour semester course load.

CONDUCT
Grand Canyon University attempts to create an atmosphere conducive to the purposes of a liberal arts education in the Christian tradition. All students who enroll in the University are expected to accept the responsibilities of campus citizenship to show consideration and respect for the personal freedom and property rights of members of the civic community and the academic community. Students are expected to give primary attention to their college work and to all classes, exercises, and engagements which require their attendance. While some students may not have personal convictions in accord with the University's policies, a person's enrollment at Grand Canyon University assumes that he/she accepts responsibility for honorable adherence to these standards, both on and off campus, while a student at the University.

Meetings and other activities provided by students in the name of the University, departments or student organizations of the University must have the approval of the Dean of Students.

The administration and faculty must approve any new club or society which is organized. They reserve the right to limit or disband any student organization.

Extra-curricular activities which take students away from classes must first be approved by the Vice President for Academic Affairs.

No property belonging to the University or to other students may be altered or removed without special permission. Any loss, damage, or breakage of school property will be charged to the student responsible for it.

Students are not permitted to have firearms of any nature or any other illegal weapon in accordance with the laws of the State of Arizona in their possession in their dorm room or apartment on campus. Hazardous materials such as blasting fuses, bullets or firecrackers are also prohibited.

Gambling, the drinking of or possession of intoxicating beverages, and the use or possession of any of the narcotic and hallucinogenic drugs is entirely forbidden. Any student who violates these standards, either on or off campus, is subject to dismissal.

The use of tobacco is not permitted on the campus except in a smoking area outside the dormitory and at the east end of the Fleming classroom building.

Dancing is not permitted on the campus, and university organizations may not sponsor dances.

The use of profanity or vulgarity is forbidden. All students should familiarize themselves with rules and discipline procedures stated in the Student Handbook. When a student does not meet the University's general standards of behavior or comply with other regulations, the University may take disciplinary action. Such action may take the form of a reprimand, restriction of certain privileges, suspension, or final dismissal.

COUNSELING
A counseling center is housed in the Office of Student Development. Low-cost counseling is available to all students and their families. No student is denied counseling due to inability to pay and medical insurance often covers all or part of the cost. In addition, students who need counseling beyond the capacity of the University staff may be referred to a community agency.

The Office of Student Development arranges counseling and referrals.

DISABLED STUDENT BUILDING/ HOUSING ACCESS
All facilities are accessible for wheelchairs and/or have other special equipment for disabled students with the following exceptions:

• Fleming Library, a two-story building, is accessible to wheelchairs at the ground level only. The second story is accessible by stairs only.

• The student apartments, a three-story complex, are accessible to wheelchairs at the ground level only. Second and third stories are accessible by stairs only.

• Bright Angel Dormitory/Kaibab Dormitory, both two-story buildings, are accessible to wheelchairs at the ground level only. Second stories are accessible by stairs only.

The requirements for admission to Grand Canyon University are the same for the individual with a disability as they are for the non-disabled individual.

Prospective students who are disabled are encouraged to write or call the Admissions Office, 3300 West Camelback Road, Phoenix, AZ 85017 (602) 589-2855, in connection with the application process. All student inquiries made will be on a confidential basis, in an effort to meet the individual applicant's needs. This is a voluntary action by the University. Decision by the applicant not to provide such information will have no bearing on the applicant's admission or treatment at Grand Canyon University.

Our campus seeks services and programs to expand opportunities for disabled students to participate fully in the educational process and broader campus life.

ELIGIBILITY FOR ACTIVITIES

Any student may participate in extracurricular activities provided by the University except as restricted by regulations established for campus organizations and intercollegiate activities.

A student who is on the most recent unsatisfactory grade list, however, must secure, from the sponsor of a given activity, permission to participate.
EMPLOYMENT SERVICES

The University maintains a placement office which assists students in securing on-campus and off-campus employment while in school and positions in the business and professional community after graduation. See page 28 for further information about the service and fees.

FOOD SERVICES

The University cafeteria provides well-balanced meals. All residents of the dormitories are required to buy meals through the University food service's meal plans. Others may buy meals on an individual basis or may purchase a meal plan. The cafeteria is closed during the Thanksgiving, Christmas, and Spring holidays.

Light lunches and refreshments are also available in the snack bar.

HEALTH SERVICE AND HEALTH RECORDS

The Cooke Health Center helps students maintain their physical and mental health, and is a campus resource for counseling on health problems. The staff is equipped to deal with acute as well as chronic problems. It is the goal of the Health Center to provide medical support for students in the very best manner possible.

The Health Center is an out-patient health facility. It is staffed by a registered nurse with a Bachelor of Nursing degree and a part-time university physician who has a private family practice. Laboratory, x-ray, pharmacy, and emergency room services are close by.

The Health Center is open Monday through Friday from 7:00 a.m. until 4:30 p.m. The nurse is on call after hours and during weekends. Services can be paid for at the time, billed to the student's school or family insurance or charged directly to the student's account. All appointments with the university physician must be made through the campus nurse. A student may retain his/her own physician. Every student is personally responsible for all his/her medical costs.

The Health Center places a strong emphasis on health promotion and lifestyle management. The nurse is available for individual counseling and group presentations on a wide variety of health education, promotion, and prevention subjects.

Student medical insurance is available for all students regularly enrolled at the University. This low-cost insurance is not required for services at the Health Center but is designed for students as a supplement to their parent's health insurance or as a student's only plan. The plan pays students financially with out-patient costs such as doctor visits, lab fees and x-rays as well as in-patient services.

Dorm students and international students must carry health insurance. All other students are encouraged to carry health insurance, as they are financially responsible for their own health care.

Students are required to have a physical exam and a health form to live in the dorms. All students must submit a Student Health Record, and a immunization records, prior to registration.

An athlete must be approved by the physician for the athletes before being permitted to participate in major sports. Examinations will be repeated periodically during the time of such participation.

Any student enrolled at the University who becomes, in the opinion of the medical staff of the Health Center, a danger to self or to others, shall be required to vacate University housing and privileges will be withdrawn from classes and will not be re-admitted until the problem has been corrected. A person who has been required to withdraw from school may be required to furnish a satisfactory health certificate before being permitted to re-enter.

HONORS AND SPECIAL RECOGNITION

HONORS DAY

Each year a day is designated for a special assembly and other appropriate activities to recognize the achievements of students who have won distinction in academic pursuits or in student leadership. Ordinarily included in the recognitions are students in one or more of the following categories: Ray-Maben Scholars, students on the Honor Roll and Dean's List, department fellows, junior class marshals, and students named for the current year in Who's Who in American Colleges and Universities.

On appropriate occasions, recipients of regional or national awards for excellence in academic, forensic, literary, athletic, or cultural affairs are recognized.

Ray-Maben Scholars. This recognition represents the highest scholarship honor awarded by Grand Canyon University. Criteria are established by the faculty and the honor is bestowed each year at graduation. The criteria consists of a cumulative and Grand Canyon GPA of at least 3.9, with no more than 12 transferable hours.

Junior Marshals. Special recognition is given to the two juniors with the highest academic ranking at the end of the Fall semester. Their junior years. This honor is restricted to those who have transferred in no more than 12 semester hours.

Graduation with Honors. The requirements for graduation with honors are stated on page 53.

Honor Roll and Dean's List. At the close of each semester, the freshman and sophomore Honor Rolls and the Dean's List are published. Students carrying 12 or more semester hours with a minimum of 8 semester hours of graded courses are considered for these honors.

Freshman students whose grade point average is 3.0 or above qualify for the Freshman Honor Roll.

Sophomore students whose grade point average is 3.5 or above qualify for the Sophomore Honor Roll.

Students whose grade point average is 3.5 or above qualify for the Dean's List.

Special audit privileges for honors students are described on page 53.

Who's Who Among Students in American Universities and Colleges. This honor recognizes, each year, approximately 15 seniors with outstanding records of campus activities, citizenship, and promise of future success and usefulness in society. Nominees must have a cumulative and Grand Canyon GPA of at least 3.0 and have attended for 2 semesters as a full-time student. Selections are made by the faculty and student body.

The Pierian Award. The Pierian Club awards, each Spring semester, an appropriate gift to the junior or senior English major who has the highest scholastic average for the year. A minimum of a "B" average must be attained by the recipient.

Wall Street Journal Award. The Wall Street Journal Award is given annually to an outstanding business student recommended by the College of Business and approved by the faculty. The award includes an inscribed medalion and a one-year subscription to the Wall Street Journal.

HOUSING SERVICES

Both apartment style and dormitory style housing is available on campus. One- and two-bedroom units, both furnished and unfurnished, can be rented by upper class students and married students in the student apartment complex. Unmarried students who are not at least 20 years of age and who carry 12 hours or more are required to live in the dormitories. Exceptions are made for those students who live with their parents, guardians, or close relatives.

The dormitories offer attractive and comfortable housing and are governed by Resident Directors. Each hall is supervised by a Resident Assistant. Students are expected to be quiet and orderly in the dormitory and thoughtful of the rights of others.

Room assignments are made in the order of date of application and payment of the housing application fee. Students are normally housed two to a room. Occasionally it is necessary to assign three students to a room in order to meet housing demands. The interests of the dormitory as a whole, and sometimes the interests of the individual student, may demand that a student change place of residence.

The dormitories are closed during the Thanksgiving and Christmas holidays and Spring recess. Any use of the dormitories during these periods must be approved by and is subject to the review of the Office of Student Development.

All students residing in university dormitories must take meals through the university meal plan.

The dormitories are closed at 12 midnight during school nights and at 2 a.m. on weekends.

The administration reserves the right to make such regulations as may seem advisable in regard
to its responsibility for students who live off the campus and away from their parents. The minimum course load for a dormitory resident is stated on page 50.

INTERCOLLEGIATE ATHLETICS

The 'Lopes sponsor 9 varsity teams in football, men's and women's basketball, men's and women's volleyball, men's tennis, and women's softball, as well as 12 JV programs in baseball, volleyball, basketball, and soccer. During the 1989-90 season the 'Lopes will participate in the NAIA and in 1990-91 in the NCAA, Division I Baseball and Division II in all other sports, pending necessary approvals. Scholarships are offered in all sports in accordance with the affiliate's rules.

To be academically eligible, student-athletes must meet the following requirements:
1. Have scored a 15 on the ACT test before completion of senior year of high school.
2. Be a high school graduate with a 2.0 GPA in the eleven core courses which include: three years of English, two years in Math, two years in Social Science, two years in Natural or Physical Science (including one laboratory course).
3. Transfer students must meet criteria 1 and 2 or attain an AA degree.
4. Transfer students must have completed 24 hours of credit in the previous two semesters.
5. All athletes must remain in good standing academically at Grand Canyon and upon completing 60 hours maintain a 2.0 GPA throughout the remainder of their schooling.

All athletes at Grand Canyon are expected to abide by all the guidelines of this catalog including the Christian representation of this institution. All athletes are subject to drug tests as outlined by the athletic program. The Drug Testing program is available upon request.

ORGANIZATIONS

CUSTODY OF ORGANIZATION FUNDS

All student organizations are required to deposit their funds with the university Business Office. The university disburses funds when requested by the sponsor or the president or treasurer of the organization with the sponsor's approval.

STUDENT GOVERNMENT

The membership of the Associated Students of Grand Canyon University (ASGCU) includes all students registered for nine or more semester hours for the current semester. The ASGCU elects six officers who form the Executive Council, and each class elects three senators who function as the legislative branch of the ASGCU. General meetings of the ASGCU are held in addition to weekly meetings of the Senate and the Executive Council. The student court, composed of three appointed justices, completes the organizational structure of the ASGCU.

ASGCU seeks to provide a means of mediation for any problem that may arise from the Associated Students and to be a nucleus for sponsoring and coordinating campus activities. It promotes faculty-student cooperation, works for campus improvements, and promotes interests which contribute to the development of individuals and of the University.

Classes are organized with officers and committees. They promote various projects throughout the school year.

RECREATIONAL LIFE

Emphasis is placed not only upon the training of the body and the mind, but also upon the development of moral and religious values. In chapel programs, in classroom discussions, and in every relationship where the occasion arises, it is in accord with the policy of the University to develop the value of Christian living being upheld. Students are encouraged to join local churches of their own faiths and to participate regularly. Various organizations provide opportunities for religious service and participation both on the campus and in the community.

A Spiritual Emphasis Week is conducted each semester. Continuous emphasis upon Christian growth is maintained.

STUDENT CLUBS

Because Grand Canyon has a variety of campus organizations, each student is able to find organized activities which are particularly interesting or helpful. These clubs and activities may be classified into Departmental and Professional Clubs, Service and Honorary Organizations, and Religious Organizations.

DEPARTMENTAL AND PROFESSIONAL CLUBS

Art Company of GCCU promotes interest and enjoyment in art and art education and is open to all interested students. Alpha Kappa Epsilon functions as a pre-medical society. Its purpose is to encourage excellence in pre-medical scholarship, to promote cooperation and contacts between health professionals and pre-medical students. Membership is open to students engaged in courses leading to studies in medicine and related fields.

Association for Computing Machinery offers students in the field of Computer Science and related fields an increased awareness of the needs and opportunities of such professional fields.

Association for Women's Active Return to Education (A.W.A.R.E.) encourages and assists the return of adult women to higher education.

Council for Exceptional Children is an organization to help promote the welfare and education of exceptional children and youth.

History Club gives students an opportunity to learn more about history in a more comfortable setting. This club promotes an understanding of the methods of the professional historian.

Human Resources Development Club encourages the participation and affiliation within the broad field of personal training and development while establishing and maintaining a communications network with the business community.

International Students Organization provides international students an opportunity to become friends with others who are making cultural, social, and academic adjustments necessary to successful completion of their studies in the United States. Students are encouraged to share accurate information about their own countries and cultures through monthly meetings, social activities, and cultural presentation. Eligible members are those attending on student visas, or other students who have lived or studied abroad for an extended period of time.

Marketing Club is for majors and minors in Marketing which explores the area of marketing for the professional.

Music Educators National Conference (Grand Canyon University Chapter) provides opportunity for professional development for college students of music education. Students participate in State, Division, and National meetings and in local activities of the chapter.

National Accountants Association is a club for majors and minors in Accounting which explores the accounting profession.

Phi Beta Lambda seeks to inform the business student of the methods, opportunities, and the challenges of business.

Physical Education Majors Club fosters progress in health education, physical education and recreation education. It seeks to advance the standards of the profession by cooperating with the State and National Education Association and participating in affairs of the American Association for Health, Physical Education, and Recreation. Membership is open to all physical education majors and to elementary education majors with physical education as a first minor.

Psychology Club offers students an increased awareness of the needs and opportunities of such professional fields outside of the classroom structure.

Pierian Club is a literary and social club attracting students interested in dramatics and literature. Membership is open to all students majoring or minoring in English.

The President's Forum is composed of the president of all campus clubs and organizations. The President of the University serves as honorary chairman. Student presidents interact with the University President in an informational format. In addition, they coordinate yearly campus events and activities.

Rotaract is a club that develops leadership and responsibility of citizenship through service to the community, advances the cause of international understanding and peace, and promotes recognition and acceptance of high ethical standards as a leadership and vocational responsibility.

Sigma Kappa Iota Ski Club provides Christian fellowship through skiing.

SOWers (Seeking Opportunity Worldwide) provides an opportunity for students to explore international missions. It coordinates information about exchange programs and mission trips.

Student National Education Association is a nationally affiliated organization for all students who plan to enter the teaching profession.

Student Nurses Association provides opportunities for nursing majors to take leadership positions in the College of Nursing and to address current nursing issues.

University Republicans works to keep students politically informed and provides speakers on civil issues.

Yachting Club provides an educational atmosphere which will allow members to learn such things as: sailing (and other water sports), geography, astronomy, oceanography, and cultures of other parts of the world.

SERVICE AND HONOR ORGANIZATIONS

Alpha Chi is an honorary scholarship and service fraternity for men and women, designed to promote excellence in academic, campus, and civic affairs. Juniors in the top 5% and Seniors in the top 10% of their classes who have earned...
least 24 hours in residence at Grand Canyon may qualify for membership on the basis of their academic records, character, and participation in University affairs.

Alpha Psi Omega is a national honorary dramatic fraternity whose purpose is to recognize and reward all phases of student participation in university play production.

Iota Phi is a scholastic and service honorary society for freshman women.

RELIGIOUS ORGANIZATIONS

Baptist Student Union provides for edifying Christian fellowship, growth, and service for all students of Grand Canyon University. BSU plans, coordinates, and conducts spiritual activities and service projects on campus and in the community.

Christian Ministries Association meets once each month for the purpose of discussing problems pertaining to the work of the gospel ministry. It helps the University to become a congenial home for students who are preparing for various Christian ministries.

Fellowship of Christian Athletes confronts athletes with the challenge and adventures of following Christ and serving Him while in college.

STUDENT DRESS

Students are to accept individual responsibility for appropriate dress. They must demonstrate a mature attitude in their dress and appearance while attending classes or engaging in other academic and extracurricular pursuits about the campus. The student is expected to maintain the same standards of dress and personal grooming which would ordinarily be maintained by those engaged in other serious pursuits.

Students are expected to wear clothing that adequately covers the person and to wear shoes in all public facilities, including public rooms in university dormitories. A faculty member may determine whether a given mode of dress disrupts the academic process in that professor's classroom. The Office of Student Development may determine the appropriate dress for Chapel and other academic and extracurricular pursuits. More formal dress, if announced, may be required for special events or occasions. For more detailed guidelines on dress, see the Student Handbook.

Obvious violations of these standards, such as failure to wear clothing that adequately covers the person or to wear shoes in public facilities, may subject the student to corrective action.

STUDENT PUBLICATIONS

CALENDAR/HANDBOOK

The student handbook is published by the Office of Student Development. It makes available detailed information concerning rules and procedures for approved student activities. It is printed with the University Calendar for the spring term.

CANYON ECHOES

This campus newspaper publication reflects the ideals, achievements, activities, and problems of student life. It offers a vehicle for information and student dialogue.

CANYON TRAILS

This is the University yearbook, published by a student staff.

SHADOWS

This is a literary journal containing short stories, verses, essays, and critiques contributed by the students of the University.

TRADITIONAL EVENTS

All School Welcome Party
Parrer's Weekend
Harvest Festival
Friends of the Library Book Reviews
Hanging of the Green
Thanksgiving Retreat
For International Students
Spring Banquet
Music Recitals
Choir Concerts
Vesper Dinner
Spring Fling
Senior Class Day
Wind Ensemble Concerts
State Band Concerts

President's Reception For New Students and Faculty
State B.S.U. Convention
Founders' Day
Spiritual Emphasis Weeks
Ritziinger Theatre Series
Thanksgiving Dinner for Arizona Baptist Children's Home
Children's Christmas Party
Ritziinger Chamber Music Series
Keeping In Touch
Education Workshop
Homecoming
Honor's Day
Grand Canyon Choral Tour
State B.S.U. Spring Retreat
Junior-Senior Banquet

TUTORING

In an effort to offer academic support to any student attending Grand Canyon University, the services of trained tutors are made available. The tutors, besides having strong skills in their particular academic disciplines, are also trained in test-taking techniques, study skills, time management and interpersonal relationship skills.

A fee is charged once a tutor has been assigned — this assures two one-hour tutoring sessions per week and shows good faith on the part of the student. The fee goes into a fund which provides small stipends for the tutors. Arrangements for a tutor may be made through any teacher, advisor, or one of the Tutor Program Directors.
GENERAL STATEMENT
Grand Canyon University welcomes applications from qualified students at least sixteen years of age who have the potential to benefit from our educational programs and to contribute to the University community. Although the University seeks to integrate Christian faith and practice into all aspects of campus life, no statement of faith or religious affiliation is required of prospective students. Applications for admission are considered primarily in light of the applicant's academic and personal qualifications, without regard to sex, race, color, age, physical handicap, national origin, or religious beliefs. Any qualified student willing to uphold the University's community standards and open to the possibility of spiritual as well as intellectual development is encouraged to apply. For information and application forms, contact:
Office of Admissions
Grand Canyon University
3810 North Widmore Road
Phoenix, AZ 85017-1097
(602) 561-2055 or 249-3300
office hours 8 a.m. to 5 p.m. (MST)
Monday through Friday

CAMPUS VISITS
Students interested in attending Grand Canyon University are strongly encouraged to visit our campus. Campus visits are arranged through the Admissions Office, and can be tailored to meet your individual needs. Visits may include a campus tour, admissions counseling, appointments with faculty members, opportunities to sit in on classes or attend chapel services, and, with sufficient notice, an overnight stay in one of the dormitories. If possible, please contact the Admissions Office at least one week in advance of the date you plan to be on campus, particularly if you wish to arrange an evening or weekend visit.

ORIENTATION
Orientation programs for new students accepted for admission to the University are conducted immediately prior to the fall and spring semesters. In addition, a Parent's Orientation program is held at the beginning of the fall semester each year. Entering full-time students are required to participate in Orientation; detailed information regarding dates, times, and program is usually sent out by the Student Development Office at least one month in advance.

UNDERGRADUATE ADMISSIONS
GENERAL INFORMATION
Grand Canyon University operates on a rolling admission system. This means that applicants generally receive an admission decision within three to four weeks after all required documents are on file in the Admissions Office. Applications are accepted according to the following schedule:

If you plan to enter... then apply...
Fall semester: April 1 - August 1
Spring semester: August 1 - January 1
Summer session: April 1 - May 1
If you are in high school, you may apply for admission during the fall semester of your senior year, after you have successfully completed six semesters of high school work. If you wish to transfer from another college or university, you should apply at the beginning of your final semester of attendance there. In any case, it is to your advantage to apply as early as possible.

APPLICATION PROCEDURES:
NEW FRESHMEN AND TRANSFER STUDENTS
In order to be considered for admission as a freshman or transfer student, you will need to submit:
1. A completed and signed Application for Admission
2. A $15.00 non-refundable application processing fee
3. Official transcript(s) and/or GED scores
4. American College Test (ACT) or Scholastic Aptitude Test (SAT) scores
In addition, to complete your application file, after you have been accepted for admission you must submit:
5. A Student Health Record

Application Fee: All prospective students must complete and sign the Application for Admission. It is important that you provide all the information requested; incomplete applications will be returned. The $15.00 processing fee should accompany your application.

Transfer Students: You will need to request official transcripts from your high school as well as any colleges or universities you have attended; applicants are not permitted to disregard their records of enrollment at other institutions. These records must be mailed directly from the issuing school to our Admissions Office. Transcripts mailed or hand-carried by applicants are unacceptable unless they are delivered in a sealed school envelope.

If you did not graduate from high school but have passed the Test of General Educational Development (GED), you will need to submit your GED scores as well as an official transcript of any high school work you completed. GED applicants must be at least 19 years of age and show evidence of maturity and readiness for college-level work.

Although applicants may be accepted for admission on the basis of incomplete records, final records are required in order to complete the admission file. If you are accepted as a high school student, you will need to submit a final transcript showing your graduation date and numerical rank in class. Likewise, if you are accepted as a transfer student but are currently enrolled at another college, you will need to submit a final transcript after you have finished your courses there.

If you have completed at least 24 semester hours of acceptable academic credit from a regionally accredited college or university, you do not need to submit your high school transcripts or GED scores. (See the section entitled "Evaluation of Transfer Credit" for the definition of acceptable credit.) However, if you plan to participate in varsity athletics, you must submit your high school transcript or GED scores regardless of the number of hours of college credit you have completed.

ACT/SAT Scores: Your official score report for either the ACT or SAT (or both, if you wish) must be sent directly from the testing organization to our Admissions Office. These examinations are offered on a regular basis.

Please refer to the Catalog sections describing programs you are interested in to determine if there are specific entrance requirements for those programs in addition to University admission requirements.

EASY ADMISSIONS PROGRAM
A high school student with an outstanding academic record may apply for early admission to Grand Canyon University with the permission of his or her principal or counselor. Such a student may begin taking courses at the University during the summer preceding the senior year. Credit earned in this way may later be applied toward a degree program at Grand Canyon University, provided the student graduates from high school, applies and is accepted for regular admission to the University, and has not used the courses to fulfill any high school graduation requirements.

Interested students should request an Early Admission application form from the Admissions Office. The form must be completed and signed by the principal or counselor and returned to the Admissions Office along with an official copy of the student's high school transcript.
throughout the country and in several locations overseas, and should be taken as early as possible during or after the junior year in high school. Information, test dates, and additional score report request forms are available from your high school counselor or the Admissions Office. Grand Canyon University's ACT code is 0092; our SAT code is 4331.

If you have completed at least 24 semester hours of acceptable credit or if you have been out of high school for five or more years, you need not submit ACT or SAT scores. However, if you plan to participate in varsity athletics, your ACT or SAT scores must be on file in the Admissions Office.

Student Health Records: If you are accepted for admission to Grand Canyon University, you must complete the health history portion of the Student Health Record, including your immunization history, and return it to the Admissions Office at least two weeks prior to registering for classes. In addition, if you plan to live on campus or if you have been under a doctor's care for any chronic or potentially serious condition, you must have your physician complete the physical examination portion of the Health Record before returning it.

Students are not permitted to register until their Health Records have been received by the Admissions Office and placed on file in the Grand Canyon University Health Center. Student Health Records are available from the Admissions Office, the Student Development Office, and the University Health Center.

ADMISSIONS STANDARDS:
NEW FRESHMEN AND TRANSFER STUDENTS

To be considered for unconditional admission to the University, as a high school student you must:
1. rank in the upper half of your class, or
2. have a grade point average for all academic subjects of at least 2.5 on a 4.0 scale, or
3. score at or above the 85th percentile nationally on the ACT (composite of approximately 19-20) or the SAT (combined verbal and math scores of approximately 900-930).

As a transfer student, you should have at least 24 semester hours of transferable credit in academic subjects with a cumulative grade point average of at least 2.0 on a 4.0 scale. Transfer students with fewer than 24 acceptable credits will be evaluated for admission on the basis of both their high school and college records.

Students who have been asked to withdraw from another college due to poor scholarship or any other reason are considered for acceptance only if the period of suspension set by the former school has elapsed or the college from which the student was asked to withdraw reinstates him or her.

If you do not qualify for unconditional admission under the above standards, but strongly desire to continue your education at Grand Canyon University, you may be considered for conditional admission to the University. In addition to the items listed under "Application Procedures" above, you may be asked to submit personal references, an essay, or a letter explaining your academic history, or to schedule an interview with one of the Admissions staff. After reviewing your application and academic records, we will request whatever additional information we need to help us make an informed admission decision. Your application will then be reviewed by an Admissions Committee made up of several University faculty and staff members, and you will be notified of their decision as soon as possible.

If you are accepted for conditional admission, you may be required to limit your first semester's enrollment to twelve or fewer weeks and to take certain courses designed to better prepare you for college-level work. After you have completed one full-time semester at Grand Canyon, your record will be reviewed. If you have earned at least twelve hours and achieved a grade point average of 2.0 or better, the restrictions on your enrollment will be removed. If not, you may either be continued on probation or asked to withdraw from the University if it appears to be in your best interest to do so.

HONORS PROGRAM

Each year, a select group of entering students, usually new freshmen, are invited to participate in the Honors Program. General criteria for selection include high school class rank in the top ten percent and ACT or SAT scores at or above the 85th percentile nationally. More specific information and honors course descriptions can be found under the Department of Humanities in the College of Arts and Sciences portion of the catalog.

SPECIAL PROGRAMS FOR ADVANCED PLACEMENT AND CREDIT

Many students who come to Grand Canyon University have achieved college-level mastery of certain subjects through advanced high school programs or by means not generally recognized for college credit. For this reason, the University actively participates in the Advanced Placement (AP) and College Level Examination Programs (CLEP) of the College Entrance Examination Board. Credit is also awarded for ACT or SAT scores at or above the 97th percentile nationally. Upon receipt of official score reports for these examinations, up to thirty semester hours of college credit may be awarded as indicated in the tables below.

Certain restrictions apply to these programs. Students are limited to a combined total of thirty semester hours for credit by examination, extension, and correspondence, including not more than twelve hours by correspondence. CLEP, AP, ACT, and SAT credit will only be given when it does not duplicate college credit previously earned and is not for a course more elementary than one for which the student has earned college credit. CLEP credit will be given only for examinations completed after July, 1965. The University does not recognize credit earned by testing after a student has completed sixty-four or more hours of college-level work. Transfer students who received credit by examination at a previous college must submit an official score report to the Grand Canyon University Admissions Office for evaluation. ACT, SAT, AP, and CLEP credit does not automatically transfer from one school to another. All policies listed below were up to date when this catalog was printed, but are subject to reevaluation and change without notice.

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

General Examination Score Credit Hrs. Equivalency
English Composition (1979 scale) 600 6 EEW 101/102
English Composition (1980 scale) 500 6 EEW 101/102
Humanities 900 Humanities elective
Mathematics 900 6 MAT-SCI credit
Natural Sciences 900 6 Science elective
Social Science 900 6 Social Science elective

ADVANCED PLACEMENT

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>5</td>
<td>(HIS 105/104)</td>
</tr>
<tr>
<td>4</td>
<td>(HIS elective)</td>
<td></td>
</tr>
<tr>
<td>3-1</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>4-5</td>
<td>(BIO 101/102)</td>
</tr>
<tr>
<td>3+ dept. conference</td>
<td>4</td>
<td>(BIO 101/102)</td>
</tr>
<tr>
<td>1-2</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>4-5</td>
<td>(CHE 114/115)</td>
</tr>
<tr>
<td>3+ dept. conference</td>
<td>4</td>
<td>(CHE 114/115)</td>
</tr>
<tr>
<td>1-2</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>4-5</td>
<td>(CS 205/213)</td>
</tr>
<tr>
<td>3</td>
<td>(CS 203)</td>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Computer Science A</td>
<td>4-5</td>
<td>(CS 203)</td>
</tr>
<tr>
<td>1-3</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>English Lang. Lit/Cmp</td>
<td>4-5</td>
<td>3 yrs. English (101/102)</td>
</tr>
<tr>
<td>3+ yrs.</td>
<td>(101/102)</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3 yrs.</td>
<td>(101/102)</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
<td>(SCI 101)</td>
</tr>
<tr>
<td>3+ yrs.</td>
<td>(101/102)</td>
<td></td>
</tr>
<tr>
<td>Western Civilization</td>
<td>4-5</td>
<td>(HIS 101/102)</td>
</tr>
<tr>
<td>3+ yrs.</td>
<td>(HIS elective)</td>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Mathematics AB</td>
<td>4-5</td>
<td>(MAT 209/213)</td>
</tr>
<tr>
<td>3+ yrs.</td>
<td>(MAT 209/213)</td>
<td></td>
</tr>
<tr>
<td>Mathematics BC</td>
<td>4-5</td>
<td>(MAT 270/271)</td>
</tr>
<tr>
<td>3+ yrs.</td>
<td>(MAT 270/271)</td>
<td></td>
</tr>
</tbody>
</table>

PREREQUISITE TO ENROLLMENT IN COURSES WITH CREDIT HOURS
as well as a course-by-course breakdown indicating how each class may be applied toward the University's graduation requirements. Courses may be accepted as upper or lower division general electives, upper or lower division departmental electives, or as directly equivalent to a particular course offered at the University. If the Admissions staff are unable to determine specific applicability for an acceptable course, general elective credit will be granted. It is then the student's responsibility to provide additional documentation if he or she wishes to receive specific credit for the course. If a student disagrees with the way credit was awarded on the evaluation, he or she may appeal to the faculty of the department in which credit is desired. The evaluation may be adjusted upon receipt of written instructions signed by the department chairperson.

The following guidelines are used in determining acceptability of courses:

- The University generally accepts courses from regionally accredited colleges and universities provided the work is not of a highly specialized nature and that a grade of "C" or better was earned. Transfer Credit Practices of Designated Educational Institutions, published by the American Association of Collegiate Registrars and Admissions Officers, is used as a general guide in determining acceptability. Courses in which "D" grades were earned may be used in some cases to meet a general studies requirement, or as a prerequisite for another course with the approval of the instructor concerned. However, no course with a grade below "C" will count toward the required number of hours for graduation.

- The University will recognize a maximum of 64 hours credit from regionally accredited community or junior colleges. Credit will be granted only for courses with grades of "C" or better, and all credit will be considered lower division. See the section entitled "Direct Transfer Plan" for additional information regarding the acceptability of Associate degrees earned at community colleges.

- Credit earned at colleges and universities which are not regionally accredited will be evaluated on a course-by-course basis. Credit will be granted only with the approval of the faculty in the department to which credit is assigned. Only courses with grades of "C" or better will be considered for transfer, and any credit awarded will be considered lower division. It is the student's responsibility to provide adequate documentation (course syllabi, college catalogs, etc.) to support his or her request for credit. A maximum of 64 semester hours may be awarded, and no credit will be awarded for uncredited work. If the student has earned 64 or more hours of college-level credit:

  - A Guide to the Evaluation of Educational Experiences in the Armed Services is used as a resource in evaluating credit earned while serving in the armed forces. Four hours of physical education credit will be awarded upon submission of the DD-214. Other credit will be granted only for work in liberal arts areas. No technical credit will be accepted, and all work will be considered lower division. Credit will not be awarded if the student had earned 64 or more college credits prior to completion of the military training program.

  - A maximum of 16 hours technical credit earned at a regionally accredited college or university will be accepted as general elective credit toward graduation.

  - The University does not recognize credit awarded by other institutions of higher education for "life experience." In addition, the University will not grant credit for independent studies, orientation programs, cooperative work study, or similar courses taken at other schools.

  - The University reserves the right to require students to validate certain credits by testing, if necessary.

  - The University will accept a combined total of no more than 64 hours of community college credit, technical credit, military service credit, and credit granted for work done at unaccredited institutions.

To request an exception to any of the above policies, students must appeal to the Academic Affairs Committee. Petitions are available from the university Records Office.

DIRECT TRANSFER PLAN

Students who complete a transfer-oriented Associate of Arts degree at a regionally accredited community college are considered to have fulfilled the University's general studies requirements, with the exception of the six hours of Bible. The Associate degree must include at least six hours of college-level composition, and students entering under the direct transfer plan must take and pass the University Writing Proficiency Exam.

Exceptions to the Direct Transfer Plan are as follows:

Education - students planning to seek teacher certification must fulfill the general studies requirements listed under the College of Education section of this Catalog.

Business - students planning to complete a degree program in the College of Business must complete the specified general studies listed in the College of Business section of this Catalog.

Nursing - the Associate of Arts (Applied Science) in Nursing will be accepted under the Direct Transfer Plan if the student pursues a degree in nursing.

Only those Associate of Arts programs specifically designed to prepare students for transfer to a four-year college or university are acceptable for the Direct Transfer Plan. An Associate of Arts in Applied Sciences, General Studies, a specialized field, or any other "terminal" program (with the exception of the Associate degree in nursing) is not acceptable.

ADMISSION OF SECOND DEGREE STUDENTS

Students wishing to obtain a second Bachelor's degree from Grand Canyon University must submit the following to be considered for admission:

1. A completed and signed application for admission listing all institutions of higher education attended.
2. A $15.00 non-refundable application fee, unless the student has previously applied to the University in the past two years.
3. An official transcript from the college or university where the student's first degree was earned, with the degree statement and graduation date recorded.

Applicants will be notified of their status upon receipt of the above items by the Admissions Office.
ADMISSION OF FIFTH-YEAR STUDENTS
Prospective students who have earned a Bachelor's degree from a regionally accredited institution and desire to work toward teacher certification through the Grand Canyon University College of Education must submit all documents required of second-degree students (see page 43). Official transcripts from any colleges or universities attended in addition to the school from which the Bachelor's degree was received should also be submitted.

For further information regarding teacher certification and the fifth-year program, please refer to the "College of Education" section of the Catalog.

ADMISSION OF INTERNATIONAL STUDENTS
An international student is defined as any student attending Grand Canyon University on a student visa issued by the United States government. In cooperation with the National Association of Foreign Student Advisors (NAFSA), an international student advisor has been designated at Grand Canyon University. Requests for information or application forms should be addressed to:

Foreign Student Advisor
Admissions Office
Grand Canyon University
3300 W. Camelback Road
Phoenix, Arizona, U.S.A. 85017-1097

In order to be considered for admission, international students must submit the following to the Admissions Office:

1. Application for Admission - A completed and signed International Student Application for Admission must be submitted to the Admissions Office. Application deadlines are:
   - Fall semester (August) entry - July 15
   - Spring semester (January) entry - December 15.

2. Transcripts - You must have completed a secondary school program which is equivalent to the 12th grade (high school) in the United States. To ensure your success in academic classes at Grand Canyon University, you should have graduated in the upper 50% of your class. An official transcript of your secondary school record in English, must be sent directly from the school to our Admissions Office. Hand-carried copies of your transcript are not acceptable. The same procedure must be followed if you have completed any college or university work. If you have finished at least 24 semester hours of college-level work at a U.S. school and have a grade point average of at least 2.0 (C) on a 4.0 scale, you do not need to submit your secondary school transcript. In some cases, you may be asked to send your transcripts to a credentials evaluation service which may be notified by the Admissions Office if this is necessary.

3. TOEFL score report - If your native language is other than English, your official score report for the Test of English as a Foreign Language (TOEFL) must be sent directly to the Admissions Office from the testing center. Since the University does not currently offer programs designed for students not proficient in written and spoken English, you will present a TOEFL score of at least 500 to be considered for admission. This requirement cannot be satisfied through experience in English programs at other schools. For information on TOEFL testing dates and locations in any country, write to:

TOEFL
Box 899
Princeton, New Jersey, U.S.A. 08540

4. References - At least two personal references are required before you can be considered for admission. You should select two people not related to you who are qualified to evaluate your academic potential and character. At least one should be a teacher or official of your school. Instruct them to mail their references directly to the Admissions Office.

After all the above documents are received by the Admissions Office, your application will be reviewed and you will be notified of your status.

If you are accepted for admission to Grand Canyon University, before your Certificate of Eligibility (I-20) can be issued, you will need to submit the following to the Admissions Office:

5. Financial Guarantee - Most international students at Grand Canyon University receive no financial assistance from the University. Therefore, international applicants must furnish evidence of full financial support while in the U.S. The cost of attending the University and living in Phoenix is currently estimated at $11,000.00 (U.S.) per year, or $8,500.00 if you go home for the summer. You must submit documentary evidence that you have sufficient funds to meet these expenses. A Financial Guarantee form, completed and signed by an officer of a known bank, must be submitted to the Admissions Office, written in English.

6. Health Record - You must submit a completed Student Health Record. You should fill in the health history portion, and your doctor must complete the physician's report after examining you.

7. Deposit - As a final confirmation of your intent to attend Grand Canyon University, you are required to make a $1500.00 deposit which will be applied to your first semesters' expenses. The deposit may be paid by check or money order, or you may use a credit card. The credit card number and expiration date must be noted on your application. The University's international bank number is VNB 88-6411. If for any reason you are unable to attend Grand Canyon, your deposit will be refunded upon request and the return of your I-20, if one was issued.

When all of the above items (1-7) have been received, the Admissions Office will issue your I-20.

International students attending the University on student visas are required to be enrolled in at least 12 hours per semester. All international students must carry health insurance; a moderately-priced student policy is available through the University Business Office. If you do not have proof of other insurance coverage, you will be required to purchase the University policy when you register for classes.

Application for campus housing is a separate procedure from admission. If you plan to live on campus, please contact:

Director of Housing
Grand Canyon University
3300 W. Camelback Road
Phoenix, Arizona, U.S.A. 85017-1097

ADMISSION OF GRADUATE STUDENTS
Students wishing to apply for admission to the Master of Arts in Education (M.A.) or the Master of Education (M.Ed.) programs may obtain all necessary information and application forms from Grand Canyon University, College of Education, 3300 W. Camelback Rd., Phoenix, Arizona 85017-1097.

In order to be considered for admission to the M.Ed. program you must complete the following:

1. Application for Admission - You must apply for admission both to Grand Canyon University and to the graduate program. The University application should be submitted to the Admissions Office along with the $15 non-refundable application fee. The Graduate Program application should be submitted to the College of Education.

2. Transcripts - Applicants must submit two sets of transcripts from each post-secondary institution attended, one set to the Admissions Office and one to the College of Education. To be considered for admission, a student's cumulative GPA for all college work
must be at least a 2.5 on a 4.0 scale. Transcripts must be sent directly from the school where credit was earned to the appropriate office at Grand Canyon University; unofficial transcripts or hand-carried copies (except those in sealed envelopes) are unacceptable.

3. References — Three completed recommendation forms must be sent directly to the College of Education by the individuals making the recommendations.

4. Basic Skills portion of the Arizona Teacher Proficiency Exam (ATPE) — Applicants must submit a score card showing satisfactory performance on the ATPE (88% or better in reading, mathematics, and grammar) to the College of Education. Applications for the ATPE are available from the College of Education.

5. Grand Canyon University Writing Proficiency Exam (WPE) — Information on the WPE is available from the College of Education. A passing score is required for admission to the M.Ed. program.

6. Interview with Graduate Committee — As soon as all the above steps have been completed, applicants will be scheduled for a personal interview with the College of Education faculty.

In order to be considered for the M.A. Program, you must complete the following:

1. Applications for Admissions — see above.

2. Transcripts — see above. In order to be considered for admission to the M.A. program, a student's cumulative GPA for all college work must be at least 2.8 on a 4.0 scale.

3. Recommendation from School Personnel — Applicants must submit their most recent teacher evaluation from the school district administrator.

4. References — Two additional completed recommendation forms which are available from the College of Education must be sent directly from the individual making the recommendation to the College of Education.

5. Miller Analog Test or Graduate Record Examination — Scores for one of these examinations must be submitted to the College of Education.

6. Interview with the Graduate Committee — see above.

When the above process is complete, applicants will be notified by the College of Education Dean concerning their status.
ACADEMIC ADVISEMENT

Every student at Grand Canyon University is assigned to a faculty advisor, usually within the major field of study, for the purpose of assisting the student with proper academic planning. However, it is the student's responsibility to become familiar with and adhere to the policies and degree requirements stated within the catalog. Students are encouraged to seek academic counseling regularly throughout their academic career.

An academic checkpoint, available upon request in the Records Office (10c per page), is a record showing the student's progress towards completion of general studies, and major/minor requirements. Student's should refer to the GRADUATION REQUIREMENTS section of this catalog for specific details regarding graduation.

ACADEMIC SEMESTER/HOUR

Grand Canyon University operates on the semester plan, offering two regular semesters of 15 weeks each. Credit is expressed in terms of semester hours. One semester hour normally requires the equivalent of one 50-minute class period per week throughout a semester. Adaptations of this principle are sometimes employed, especially in music, physical education activity, and laboratory courses. Summer sessions, composed of two terms of five weeks each, are operated on an accelerated schedule which is in accord with the semester hour principle. An interterm course for three hours credit is offered in January of each year.

CLASS ATTENDANCE

1. Students are expected to be regular and punctual in class attendance. The University believes that students themselves are primarily responsible for attendance. Instructors will provide students with written statements of their policies with respect to absences. If students violate the instructor's attendance requirements, the instructor may recommend to the Vice President for Academic Affairs that the student be administratively dropped from the course. If the student is administratively dropped, it will result in a grade of "W." No refunds are made for administrative withdrawals. Students may appeal administrative drops to the Office of the Vice President for Academic Affairs.

2. The student must notify the Office of Student Development directly when an absence from class of one week or more is unavoidable.

CLASSIFICATION OF COURSES

Courses are numbered from 100 to 699. The course numbering system is as follows: 100 - 299 are lower division courses designed for freshman and sophomore students. Usually a freshman will not be permitted to take a course which bears a number higher than 299 and a sophomore not higher than 399. Certain classes are closed to freshman who have not had designated prerequisites (consult course description for prerequisite requirement). 300 - 499 are upper division courses designed for juniors and seniors. 500 - 699 are graduate level courses.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen until they have earned 30 semester hours. Students are classified as sophomores when they have earned 30 to 59 semester hours. Students are classified as juniors when they have earned from 60 to 89 semester hours. Students are classified as seniors when they have earned a minimum of 90 semester hours of credit.

Students are not permitted to graduate at the end of a semester or term with a grade point average of less than 2.0. (See page 58 for General Graduation Requirements.)

Fifth Year Students—those students who have completed a bachelor's degree from a regionally accredited institution and are accepted for a program of specified upper division courses to secure a second bachelor's degree shall be approved by the College of Education.

Second Degree Students—those students who have completed a bachelor's degree from a regionally accredited institution and are completing the requirements for a second bachelor's degree (see page 60).

Unclassified Students—those students who are not working toward a degree and are not included in the above classifications.

COMPREHENSIVE EXAMINATIONS

Matriculated students may establish credit by examination, especially in music, in which the course is offered. Credit for a non-credit prerequisite may also be established by a department examination. A proficiency examination, without credit, may be required by a department for the waiver of a course requirement. The examination, as prepared by the instructor, must be approved by the Department Chairperson. A letter grade of "C" or higher must be earned to be acceptable for credit. Grades will be shown on the student's academic record as "C." No entry will be made for grades below "C." The graded examination will be kept on file in the student's permanent file in the Records Office.

LIMITATIONS

1. Application for credit by examination must be made during the first year of enrollment at Grand Canyon University.

2. Credit applies only to catalog courses and only to those courses for which CLEP examinations are not available.

3. Credit may not be earned if the course which is equivalent to, or more elementary than, another course in which the student is enrolled or for which the student has already received credit.

4. A maximum of 30 hours credit by examination, extension, and correspondence may be applied toward a degree.

PROCEDURES

Students should:

1. Obtain an Application for Credit by Examination from the Records Office.

2. Pay the $5 special examination fee in the Business Office and obtain their validation of payment.

3. Complete the necessary information and obtain all necessary signatures.

4. Present the validated application to the instructor who will be responsible to prepare the examination.

5. Obtain the instructor's signature and final grade.

6. Return the application to the Business Office and pay the fee of $12.50 for each hour of credit awarded.

7. Submit completed form to the Records Office for posting of credit earned.

Upon receipt of the validated grade, credit will be recorded on the student's permanent record. The instructor must forward a copy of the completed exam and score to the Records Office for the student's file. Exceptions to the above policies may be made upon petition to and approval of the Academic Affairs Committee.

CONCURRENT ENROLLMENT

Undergraduate students may enroll at other institutions while enrolled at Grand Canyon University provided that other university policies are not violated and:

1. The student completes the necessary paperwork, in the Records Office, prior to enrollment to ensure progress toward a degree.

2. Total enrollment at all institutions in a given semester may not exceed 18 hours without prior permission from the Academic Affairs Committee.

3. Requests from Undergraduate students to the Academic Affairs Committee must have the endorsement of the student's advisor.

4. Requests from students in the Master's degree program must be submitted to the Dean of the College of Education.

Transfer credit may not be accepted if the above guidelines are not followed. Undergraduate students enrolled in less than 12 hours at Grand Canyon University are not subject to these regulations. Concurrent Enrollment forms and Academic Affairs Committee petitions are available in the Records Office.
COURSES

AUDITING OF COURSES
Under certain conditions a student may wish to audit a course rather than take it for credit in a degree program. The student will receive a grade of "S" or "U" instead of a letter grade. Students may change from credit to audit, with written consent of the instructor, in any course through the last day in the semester when a course may be dropped without penalty, by going through the Records Office to complete the official procedure. Students may take a course for credit which they have previously taken as an audit course. A student may not change from audit to credit after the last day for registration for credit as listed in the academic calendar of the current University catalog.

CHANGE OF COURSES
A student who has completed registration, no change in course schedule is permitted without the signatures of the professor or professors concerned, the Registrar or Vice President for Academic Affairs, and the Business Office. Tuition may be refunded when changes in class schedule are made upon the recommendation of the Vice President for Academic Affairs. Refunds are determined by the date the student files a completed withdrawal form with the Business Office. (See the schedule of refunds beginning on page 18.)

A student is not permitted to enroll for credit in a course after the last date to enroll for credit as shown in the academic calendar on pages 4, 5, and 6.

COURSE LOAD
An undergraduate student who is enrolled for a minimum of 12 semester hours of credit courses is defined to be full-time during the Fall or Spring semesters. A minimum of 6 semester hours of credit courses during each of the Summer sessions is considered full-time. January Term enrollment is considered full-time, but January Term hours are not counted toward either Fall or Spring full-time determination.
A graduate student who is enrolled for a minimum of 9 semester hours of credit courses is defined to be full-time during the Fall or Spring semester.
Undergraduate students living on campus are expected to carry a minimum of 12 semester hours. Graduate students living on campus are expected to carry a minimum of 9 semester hours. Any exceptions must be determined by the university physician or by special consent of the Vice President for Academic Affairs.

A student may be permitted to repeat a course in order to raise an earlier grade of "D." The last grade earned is considered the grade of record as it pertains to credit toward graduation.

SPECIAL STUDY COURSES
Certain course numbers have been reserved for special study (courses) which instructional departments of the University wish to approve. These fall into three categories:

INDEPENDENT STUDY
Department number 499 (undergraduate) or Department number 599/699 (graduate) is assigned to these classes. Research, seminar, or readings on a special topic to be selected by the student and the faculty advisor are appropriate. This type of course may be taken for one, two, three, or four hours, depending upon the amount of time and work involved and may be repeated for up to four hours total credit per subject area unless specified otherwise in requirements for a major.

Independent Study is reserved for upper division students with a grade point average of 3.0, with approval of the dean/department chairperson, instructor, and the Vice President for Academic Affairs.

PRACTICUM
Numbered 399 in each department, for one, two, three, or four hours of credit, the practicum is a supervised practical experience in the student's major area of interest. A minimum of 45 hours (maximum 60) of practical experience will be scheduled for each semester hour of credit. The experience must be arranged with an agency, organization, or individual that must agree to provide an advisor to work with the faculty advisor in designing and evaluating the student's experience. This course is for upper division students with a 2.0 GPA and may be taken...any semester with approval of faculty advisor, dean/department chairperson, and the Vice President for Academic Affairs. The Internship numbers in the Professor of Arts and Master of Education programs are EDU 580/680.

READING AND CONFERENCE
Any course listed in the catalog may be taken by reading and conference with the instructor, with approval of the dean/department chairperson and the Vice President for Academic Affairs. The student must have a legitimate reason for seeking course credit through reading and conference. Students may not be permitted to receive credit for more than two courses by this method. A 2.0 GPA is required.

PROCEDURES
Students should:
1. Obtain proper special study form from the Records Office (the Office of the Registrar keeps the records which indicate whether a student is eligible for a special study).
2. Complete required special study form in consultation with the instructor.
3. Obtain proper signatures.
4. File completed form with the Records Office no later than one week after the last day to register for credit for that semester (see academic calendar). A student is not officially registered for a special study course until the completed form has been filed with the Records Office. It is recommended that this procedure be completed prior to registration.

WITHDRAWING FROM COURSES
To withdraw officially from all courses a student must secure an official withdrawal form from the Records Office and obtain all signatures indicated on the form. A student who officially withdraws from all courses at any time during a semester receives a grade of "W." An unofficial withdrawal results automatically in a grade of "F."

CORRESPONDENCE AND EXTENSION CREDIT
A maximum of 30 hours of credit by examination, extension, and correspondence work, including not more than 12 hours by correspondence, may be allowed for undergraduate graduation.
Credit for college level seminar extension courses may be transferred to Grand Canyon University under certain conditions. Students planning eventual transfer of these courses should secure approval from the Chairperson of the Department of Christian Studies before they enroll in seminar extension courses.

Credit for any correspondence work and for any extension work transferred from another institution must be recorded with the Records Office prior to enrollment in the final semester before graduation. Such work done at any time by a student while enrolled in Grand Canyon University must meet all of the criteria for concurrent enrollment.

ELIGIBILITY FOR ACTIVITIES

Any student may participate in extracurricular activities provided by the University except as restricted by regulations established for campus organizations and intercollegiate activities. A student who is on the most recent unsatisfactory grade list or on probation, however, must secure from the sponsor of a given activity permission to participate.

Any student with probationary or provisional status is not to hold office in any student organization until the deficiency is overcome.

GRADE REQUIREMENTS

For graduation, undergraduate students must present a minimum of 128 semester hours of credit and a grade point average of 2.0 for all courses attempted at Grand Canyon University. At least 45 hours must be upper division credit. Candidates for a Master's degree must have a minimum grade point average of 3.0 for graduation.

The penalties concerning grades on college work taken elsewhere is given on page 42.

Students must also have a "C" average (2.0 GPA) in their majors and may not count toward their major any course with a grade below "C." Candidates for a secondary teaching certificate must have a minimum grade point average of 2.5 in their teaching majors.

In calculating a student's grade point average in the major, work transferred for the major is evaluated on the same basis as work taken at Grand Canyon University.

GRADING SYSTEM

The grading system used at Grand Canyon University is as follows:

A: Superior; extraordinary scholarship; outstanding performance
B: Far above average; unusually good work
C: Average; standard performance; acceptable college work
D: Passing, but below standard
F: Failure or unauthorized withdrawal
I: Incomplete (see note on page 53)
W: Authorized withdrawal; no credit
C-: Credit given, but no grade or quality points
S: Satisfactory completion of audit or non-credit course
U: Additional work needed to meet requirements in non-credit or non-course grade
NR: Not reported by instructor
IP: Course currently in progress

ADMINISTRATIVE WITHDRAWAL

University professors are to provide students with a written attendance policy. If a student fails to comply with a stated attendance policy, the professor may administratively withdraw the student from the course. (See page 46 for more information.)

APPEAL OF GRADE

A student who feels that a grade has been unfairly awarded may appeal the grade by submitting a letter of appeal to the Academic Affairs Committee. The appeal should include specific reasons for requesting the grade change. A response from the instructor will be obtained before the appeal will be considered. Appeals for grade changes must be made within one year.

AUDIT GRADE

Courses taken for no-credit (audit) earn a grade of "S" or "U." Audit courses do not earn credit toward graduation, nor do they fulfill requirements for course prerequisites.

AVERAGE OF GRADES

For the purpose of computing grade point averages, grade points are assigned as follows: "A," 4 points for each semester hour; "B," 3 points; "C," 2 points; "D," 1 point; "F," 0 points. Other grades are not included in grade point average (GPA) computations. To calculate the GPA, semester hours for each course are multiplied by the grade points for that grade. The sum of these products is divided by the number of hours which carry "A," "B," "C," "D," and "F" grades. The GPA is based only upon work taken in residence at Grand Canyon University.

CHANGE OF GRADE

Final grades may be changed only by the instructor of the course, and then only if there has been an error in computation or to remove an incomplete grade ("I"). The instructor must submit an official copy of the change, which will be mailed to the student.

CREDIT GRADE

Certain courses earn credit toward and fulfill requirements but do not count in GPA computation. These courses are given a grade of "Cr" (credit). This grade is not offered as an option to students; rather, the courses earn only grades of "Cr" or "U." A grade of "U" earns no credit.

INCOMPLETE GRADE

An incomplete grade will be given at the end of the term or semester only when seriously extenuating circumstances prevent a student from completing course requirements before the close of the grading period. The instructor must file a written explanation for assigning an incomplete grade and a statement of what the student must do to complete the course requirements. When a grade of "I" is given, the student must complete all necessary work within the following semester. Incompletes earned in the Fall semester and January Term are to be completed by the date set by the instructor and no later than May 1. Incompletes earned in the Spring semester and Summer sessions are to be completed by the date set by the instructor and no later than December 1. Failure to complete the required work within the specified time will result in the grade being changed to an "F." Neither the "I" nor the "F" can be changed to a "W" at a later date.

WITHDRAWAL GRADE

The grade of "W" will be given only when a student has officially withdrawn from the course prior to the penalty date as stated in the current semester bulletin. To withdraw officially from a course, a student must obtain necessary forms from the Records Office, secure all required signatures, and pay any withdrawal (drop) fees in the Business Office. Withdrawals (drops) are considered official as of the date the student files a completed withdrawal form with the Business Office. Failure to follow these procedures will result in a grade of "F."

LATE EXAMINATIONS

Under certain conditions students may be permitted to take a major examination which they missed. In all such cases students must account to the instructor for their absences and must present a receipt from the Business Office showing payment of the necessary fee (see page 17).

STANDARDS OF ACADEMICS

ACADEMIC HONORS

GRADUATION WITH HONORS

Undergraduate Students who have earned at least 60 hours at Grand Canyon University may qualify for honors at graduation by maintaining one of the following grade point averages:

- 3.40 to 3.59 may qualify for graduation cum laude;
- 3.60 to 3.79 may qualify for graduation magna cum laude;
- 3.80 to 4.00 may qualify for graduation summa cum laude.

Second degree and graduate students are not eligible for honors.

In order to qualify for a specific honor, students must meet or exceed the GPA requirement for that honor both on work done at Grand Canyon University and on all college work attempted. Transfer students may not graduate with an honor higher than that to which their GPA at Grand Canyon University would qualify them.

OTHER HONORS

Other honors related to academic achievement are described on page 33.

HONOR STUDENT AUDIT PRIVILEGES

An undergraduate student who qualifies for the Dean's List during any semester may audit one course within the next calendar year without charge. The audit privilege covers the regular audit fee for any course, regardless of the number of semester hours. It does not cover class fees.

HONORS STUDY PROGRAM

The Honors Program is designed to provide a unique educational challenge for a select number of students who have demonstrated unusual scholarship and aptitude for learning. It seeks to provide them with opportunities for advanced study within their own discipline as well as exchanges with faculty and students outside their own fields.

This is accomplished through an Honors Colloquium led by faculty and outside speakers, attendance at local symposiums, plays, exhibits, or lectures and an Honors Essay in which the students are involved in original research in their own disciplines.

Students are admitted to the Honors Study Program by invitation of the Honors Program Committee. Interested students should see the chairperson of this committee.
ACADEMIC PROBATION
Undergraduate students who are admitted from the third quarter of their high school graduating classes and whose ACT or SAT scores are below the 50th percentile are admitted on academic probation.

Undergraduate students admitted on probation retain that status until they have earned a total of 12 hours at Grand Canyon University and have earned a cumulative GPA of 2.0. If they do not have an average of 2.0 on these 12 hours, they are subject to dismissal. All students admitted on probation are required to take EDU 103/113 the first semester they enroll.

Undergraduate students whose cumulative grade point average on 12 or more hours attempted at Grand Canyon University drops below 2.0 are placed on academic probation.

Probationary status is removed when the undergraduate student earns a cumulative grade point average of 2.0 or above on all work attempted at Grand Canyon University.

An undergraduate student on academic or disciplinary probation is not eligible for any grant or scholarship administered by the University, nor for an office in any student organization.

An undergraduate student on probation is not classified as a senior scheduled for graduation (see page 58).

Once admitted into the graduate field of study, a graduate student whose cumulative grade point average drops below 2.8 is placed on academic probation.

ACADEMIC SUSPENSION
An undergraduate student who has attempted 24 hours in residence at the University will normally be suspended at the end of a semester in which his cumulative grade point average falls below the following minimums:
- 1.50 for Freshmen and Sophomores
- 1.75 for Juniors
- 2.00 for Seniors
A student who has been suspended may make written application to the Records Office for reinstatement. A student subject to academic suspension for the second time may make written application for reinstatement to the Academic Affairs Committee. A student subject to academic suspension for the third time is normally given final dismissal.
A student reinstated after an academic suspension is admitted provisionally. (See Provisional Status.)

Once admitted into the graduate field of study, a graduate student will normally be suspended at the end of a semester in which his cumulative grade point average falls below 2.5.

A graduate student, admitted into the Master's program, should contact the College of Education for the procedure in appealing academic suspension.

PROVISIONAL STATUS
Undergraduate transfer students admitted with less than a "C" average, or those reinstated after academic suspension, are admitted provisionally. Persons thus admitted retain provisional status until they have earned a total of at least 12 hours in Grand Canyon University and have earned a cumulative grade point average of 2.0. If they do not have an average of 2.0 on these 12 hours, they are subject to dismissal.
A student who has provisional status is subject to all the restrictions named for probationary status. (See Academic Probation.)

A student with provisional status may be given final dismissal at any time if this appears to be in the best interest of the student and/or the University.

STUDENT RECORDS
Annually Grand Canyon University informs students of the Family Educational Rights and Privacy Act of 1974. This Act, with which the institution wishes to comply fully, was designed to protect the privacy of education records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with The Family Educational Rights and Privacy Act office (FERPA) concerning alleged failures by the institution to comply with this Act.

Local policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the Admissions Office. The policy is also printed in the class schedule.

The Admissions Office maintains a Directory of Records which lists all educational records maintained on students by this institution.

Questions concerning the Family Education Rights and Privacy Act may be referred to the Admissions Office.

UPPER DIVISION REQUIREMENT

For a baccalaureate degree, a student must earn a minimum of 45 semester hours of credit in upper division (300 or above). In exceptional cases, students may petition the Academic Affairs Committee for special consideration.
DEGREES OFFERED

The University offers curricula leading to the degrees of Master of Art in Education, Master of Education, Bachelor of Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Nursing, and Bachelor of General Studies.

The Master of Arts in Education is granted to practicing elementary and secondary teachers in a specified field of study (Reading Education, Elementary Education, and Gifted Education). Contact the College of Education for further information regarding other fields of specialization.

The Master of Education is granted to those students who have completed a bachelor's degree from a regionally accredited institution and are seeking certification at the elementary or secondary level. An advanced program of study is included in that preparation or can be completed. (This would require certification requirements to be completed.)

The Bachelor of Arts degree is granted to majors in Art, Art Education, Studio Art, Christian Studies, Communications, English, Theatre-Speech, History, Social Science, and Music.

The Bachelor of Music degree is the initial collegiate degree in music designed for those students who seek a career as professional performers or teachers. This degree is intended for the student who excels in performance. It is available for students majoring in Church Music, Piano Performance, and Vocal Performance.

The Bachelor of Science degree is granted to majors in Accounting, Biology, Biological (Environmental Science emphasis), Biology (for secondary education), Business Administration (Business Education emphasis), Business Administration (International Business emphasis), Business Administration (Management emphasis), Chemistry, Computer Science, Computer Science (Teaching emphasis for secondary education), Economics, Elementary Education, Finance, General Business, Human Resource Development, Justice Studies, Marketing, Mathematics, Mathematics (for secondary education), Mathematics (for engineers), Music Education, Physical Education, Psychology, Science (Teaching emphasis for elementary education), Special Education, Sociology, and Theater-Drama.

The Bachelor of Science in Nursing is granted to majors in Nursing.

The Bachelor of General Studies is granted to those who complete a program designed primarily for adults who are interested in a broad spectrum of studies for personal enrichment or in obtaining a degree acceptable for special fields of endeavor which do not require specific traditional degrees.

Liberal Arts majors not listed in the catalog may be arranged under the direction of the department concerned with the approval of the Vice President for Academic Affairs and the Curriculum Committee.

CHOICE OF CATALOG

A candidate for a degree may elect to meet the requirements for graduation as outlined in the catalog in effect at the time of his original matriculation, or those of any subsequent catalog. Students seeking certification to teach in Arizona must meet requirements in effect at the time of their graduation.

Arizona Community College transfer students will be permitted to follow the degree requirements specified in the Grand Canyon University Catalog in effect at the time they were initially admitted to an Arizona Community College providing their college attendance has been continuous (though a student may elect to graduate under any subsequent catalog issued while the student is in continuous enrollment).

CURRICULAR REQUIREMENTS FOR GRADUATION

The completion of the required 128 semester hours for a baccalaureate degree usually requires four years of 32 semester hours each. The freshman and sophomore years are spent in general or introductory courses in diversified liberal arts areas. During the remaining two years, the student may concentrate in the field of major interest. The work for the entire four year program consists of (1) General Studies, (2) Major and Minor Subjects, (3) Elective Courses.

ELECTIVE COURSES

A faculty advisor will help each student select a combination of major, minor, and elective studies appropriate for that individual.

A student majoring to take courses from the regular college curriculum offered in each department in addition to the courses which may be required in that particular area.

GENERAL REQUIREMENTS FOR GRADUATION

APPLICATION FOR GRADUATION

All candidates who expect to complete degree requirements during the Spring semester or

Summer Session must file a Statement of Intent to Graduate with the Records Office no later than February 15 of that semester. Candidates who expect to complete requirements during the Fall semester should file the statement by September 15 of that semester. Statement of Intent to Graduate forms may be obtained from the Records Office. A $10.00 non-refundable graduation fee must be paid in the Business Office before returning the completed form to the Records Office. Once the completed Statement of Intent to Graduation has been filed in the Records Office, an official check of remaining degree requirements will be provided. A fee of $10.00 will be charged for any additional degree check necessitated by a student subsequently changing catalog or curriculum.

COMMENCEMENT EXERCISES

ACADEMIC REGALIA

Degree candidates participating in the commencement exercises are required to wear the prescribed academic regalia, which may be purchased through the University Bookstore.

ATTENDANCE

A candidate for graduation is expected to attend public commencement exercises which are held annually in May. In extreme hardship cases a student may be excused, but only when a written request is approved by the Vice President for Academic Affairs.

Graduate students must complete their entire program prior to being permitted attendance at commencement and any of the associated activities.

ELIGIBILITY TO PARTICIPATE IN COMMENCEMENT

The policy adopted by the Faculty concerning eligibility of seniors to participate in commencement is outlined below:

- Prospective graduates who have completed all requirements for graduation or will do so by May or August graduate in the annual commencement in May. They appear in alphabetical order by degrees and are ranked diploma covers. Those who have completed all requirements by May will receive their diplomas at that time; diplomas will be mailed to August graduates at the end of the Summer session.

- Names of August graduates appear in the printed program along with December, January, and March graduates, with a asterisk to indicate that they expect to complete requirements by August.

Requirements:

1. Undergraduate: "C" average at beginning of Spring semester. A student who does not have a "C" average at the beginning of Spring semester may not graduate before May of the following year.

2. Graduate: "B" average at beginning of Spring semester. A student who does not have a "B" average at the beginning of Spring semester may not graduate before May of the following year. Graduate students must complete their entire program prior to being permitted attendance at commencement and any of the associated activities.

3. Statement of Intent to Graduate indicates that requirements will be met before the end of the Summer session. This must be filed with the Records Office by May 1. Failure to meet the May 1 deadline will make the student ineligible to participate in the graduation exercises until the following May. (This would not hinder one's applying for a job or going on to graduate studies.)

CORRESPONDENCE AND EXTENSION CREDIT

Record of all correspondence and extension work transferred from another institution must be filed with the Records Office prior to enrollment in the final semester before graduation. (See page 51 for additional information concerning correspondence and extension credit.)

GRADUATION WITH HONORS

The requirements for graduation with honors are stated on page 53.

MINIMUM RESIDENCE

Normally eight semesters of residence or the equivalent in an approved college are required for a baccalaureate degree. At least 30 semester hours, including the 12 semester hours immediately preceding graduation, must be taken at Grand Canyon.

Undergraduate students are required to take in residence at Grand Canyon University at least 21 semester hours in their major subject, which must be Upper Division, and at least 20 semester hours in their minor subject, three of which must be Upper Division. Students pursuing majors that do not require a minor must take 30 semester hours in their major subject, 18 of which must be Upper Division, in residence at Grand Canyon University.

Graduate students in the Master of Education degree program with an elementary or secondary specialization must take 35 semester hours, and those specializing in secondary education must
take 30 semester hours, including the 12 semester hours immediately preceding graduation, in residency at Grand Canyon University. Refer to the College of Education for specific requirements.

Graduate students in the Master of Arts in Education degree program must take 22 semester resident hours, which includes 12 semester hours immediately preceding graduation, at Grand Canyon University. Refer to the College of Education for specific requirements.

TOTAL HOURS/GRAD POINT AVERAGE

The total number of semester hours for a Master Arts in Education degree is not to exceed 38. Refer to the College of Education for specific programs of study.

The total number of semester hours for a Master of Education degree is not to exceed 60. Refer to the College of Education for specific courses.

The total number of semester hours required for a baccalaureate degree is 128 with a minimum grade point average of 2.0, indicating an average of "C+" on all work taken at Grand Canyon University. At least 45 hours must be Upper Division credit.

Undergraduate students are not permitted to graduate at the end of a semester or term which they began with a grade point average of less than 2.0. (See page 48, Classification of Students.)

MAJOR GRADE POINT AVERAGE

Undergraduate students must also have a "C" average (2.0) in their majors and are not permitted to count toward their majors any course with a grade below "C." Higher GPA's are required by specific departments.

Graduate students in the Master of Arts in Education and Master of Education programs must maintain a 3.0 grade point average.

WRITING PROFICIENCY EXAMINATION

The University feels that a college graduate should be able to write clear and correct exposition properly. Students who expect to graduate from Grand Canyon University are required to pass a Writing Proficiency Examination. Examiners write short essays based on general subject matter. Members of the English faculty read the essays, then send them with their recommendations to the department chairperson. The various department faculties make the final decision as to the student's competency in writing. For students who take freshman English at Grand Canyon, the examination is given as part of English EEW 102. Students in EEW 102 who do not pass the examination are required to register for EEW 100, Basic English.

Undergraduate students who take freshman English elsewhere are required to take the examination during their first semester at the University. The examination may be taken twice; if a student fails the examination the second time, he/she must register for EEW 100 Basic English the following semester.

Graduate students in the Master of Arts in Education are exempted from taking the Writing Proficiency Examination. However, students in the Master of Education program must take, and pass, the Writing Proficiency Examination.

The examination is given during registration, twice each semester, and once during the summer. Notices of the examination dates appear in the campus bulletins and activities calendar. Directions, suggestions and a sample essay are available from the office of the Humanities Department chairperson or the Writing Proficiency Exam Coordinator. The $5.00 fee for the Writing Proficiency Examination must be paid at the University Business Office and the receipt presented at the time of the examination.

GENERAL STUDIES

The General Studies portion of the curriculum at Grand Canyon University is designed to unify the undergraduate student's early college experience by forming a comprehensive and correlated foundation for a more meaningful life and for future academic pursuits. It seeks to help students to develop an understanding and appreciation of the various areas of knowledge and creative endeavor which have contributed to the development of contemporary society and thus to enable them to achieve greater social stability and a more secure personal life.

General Studies seek to provide, during the first college years, the kinds of learning experiences which will enable all students to choose wisely and build carefully the specialized program of studies most appropriate for them. General Studies are primarily concerned with developing an awareness of the significance of various areas of knowledge to the student, their relationship to other areas of human endeavor and achievement, and their influence and potential in today's world.

General Studies at Grand Canyon University seek to help the individual student to apprehend the Christian way of life and to begin to acquire the knowledge, skills, and attitudes essential to a citizen who assumes moral and social responsibilities.

Students in teacher education programs will follow the list appearing on page 123 under the College of Education section of this catalog. Consult departments for specific general studies requirements.

For other students seeking the B.A., B.G.S., B.M., B.S., or B.S.N. the courses below comprise the minimum requirement in General Studies.

CHRISTIAN STUDIES

BIB 113 Old Testament History
BIB 123 New Testament History

ENGLISH

EEW 101 Grammar & Composition
EEW 102 Composition & Literature

HUMANITIES

No more than 3 hours in one area with the exception of Foreign Language
Art
Foreign Language
Philosophy
Sociology

No more than 3 hours in one area with the exception of Foreign Language

SOCIAL STUDIES

At least 3 hours of History (chosen from HIS 101, 102, 103, 105) no more than 6 hours in one area

History
Geography
Political Science

SCIENCES

At least one course from each group

Group I: Math, Computer Science, any Statistics
Group II: Lab Science

PHYSICAL EDUCATION

Must be two different activity courses

JANUARY TERM

The January Term is a three-week period, between the Fall and Spring semesters, in which students take only one course. The University seeks to emphasize courses which take an interdisciplinary approach with emphasis on active participation and individual research in both on- and off-campus experiences. One January Interterm course is normally required for each 42 hours completed in residence, with the following exceptions:

1. Those who meet their graduation requirements as essentially part-time students.
2. Those who meet their graduation requirements as essentially night students.
3. Those who have taken one January Interterm course, in sequence, each year they are in continuing residence.

SUGGESTED PROGRAM FOR BACHELOR DEGREE CANDIDATES

Following is a guide for an entering Freshman who has not yet decided on a major subject area. One may use this suggested program to assist in planning a course of study which will lead to a Bachelor Degree in four years. Attention has been given to those courses which generally require a significant amount of outside reading so as not to overload a beginning student.

Students who have already decided on a major are directed to the catalog section for that department for the specific program of study for their selected major.

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<tr>
<th>Semester</th>
<th>January</th>
<th>Freshman Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BIB 113, 123</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshman English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math, Comp., Statistics</td>
</tr>
<tr>
<td></td>
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<td>3 3 3</td>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>January</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Social Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>January Term</td>
</tr>
</tbody>
</table>
MAJOR AND MINOR SUBJECTS

By the beginning of their junior year undergraduate students are required to select one subject area, to be known as their major, in which they must present at least 30 semester hours of acceptable credit. In certain areas of study the number of hours required for a major exceeds 30. In any case, at least 15 hours must be Upper Division. Students must also have a "C" average in their major and are not permitted to count in the major any course with a grade below "C-". A candidate for a secondary teaching certificate must have a "C-" (2.5) average, or above, in the teaching major.

Unless a student chooses a major that does not require a minor, the student must also choose a minor in a subject area other than the major. The minor must consist of not fewer than 18 semester hours. Of these, six hours should be from Upper Division courses. It is suggested that a student try to earn at least 24 hours in the minor to teach in that field. No minor is certifiable. Some majors do not require minors due to the extensive breadth of requirements for the degree. Such majors are so indicated in their descriptions later in the catalog.

A student may elect to complete a second major in lieu of a minor.

No course may count toward hours required for the completion of both major and minor.

Transfer students should consult the paragraph concerning minimum residence (see page 57).

SECOND DEGREE

A student who has earned a degree from a regionally accredited college may be granted an additional baccalaureate degree from Grand Canyon University upon completion of the following:

1. General Education requirements for the degree sought.
2. A major in a field not used as a major for the earlier degree (See specific major for number of hours required).
3. A minimum of 30 hours in residence (36 for those who have not met the 6-hour requirement in Bible) completed after the granting of previous degrees.
4. Students earning a second degree in conjunction with a first degree must have a minimum of 158 hours and complete both degree requirements within the same time frame. The second degree must also be different than the first (i.e. B.A. & B.S. or B.S. & B.S.N.).
5. Second Degree students do not qualify for honors at graduation.
College of Arts & Sciences

Christian Studies
Computer Science
Health and Physical Education
History and Social Sciences
Humanities (Art, English, Honors, Modern Languages)
Mathematics
Natural Sciences
DEPARTMENT DESCRIPTION

Courses in the Department of Christian Studies are intended to give students an understanding and appreciation of the Bible, to arouse in them a desire for Christian usefulness, and to equip them for leadership in various church-related activities.

Many courses in this department are designed to be beneficial to all college students. Some are courses which ministerial students should take, whether or not they expect to continue their studies in seminary.

SUGGESTED COURSE OF STUDY FOR MINISTERIAL STUDENTS

The ministerial student should plan a course of study to give the best possible general preparation for the student's life work. Enrollment in a wide variety of courses, according to personal interests, will provide background for association with people in all fields of endeavor. For improvement of ability in communication, the ministerial student should become proficient in speech, English, and possibly journalism. Courses in physical education will help develop a lifelong program of health improvement and care.

The ministerial student, especially one who does not plan to go to seminary, is encouraged to take a major in Christian Studies. Not only does this encourage the student's spiritual growth, it also prepares the student for seminary. Seminary courses are generally more technical and of broader scope than college courses. Usually, any Christian Studies course offered in college will be only preparatory and will not result in repetition at seminary. Students planning to enter religious or church-related work are strongly encouraged to pursue seminary studies following graduation from college.

CENTER FOR BIBLICAL STUDIES

The Department of Christian Studies has established a Center for Biblical Studies to enlist more students in the study of Bible and religion and to render a service to the community.

Under this program a person not enrolled in any other college may take up to seven hours of college work per semester, all of which must be in Bible, Greek, or Christian Studies. These courses may be audited or taken for credit. Any of the courses listed in the Department of Christian Studies, except Philosophy, may be taken under the program, only during a regular Fall or Spring semester.

A certificate will be awarded upon completion of 18 hours and an advanced certificate for 30 hours. There is a special tuition fee of one-half the regular rate. See page 17 for specific financial information pertaining to those enrolled in the Center for Biblical Studies.

DEGREE REQUIREMENTS — CHRISTIAN STUDIES

REQUIREMENTS FOR A MAJOR IN CHRISTIAN STUDIES (B.A. DEGREE)

<table>
<thead>
<tr>
<th>Category</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Hours</td>
<td>39 hours</td>
</tr>
<tr>
<td>BIB 113, 123 Old and New Testament (Prerequisites for the Christian Studies major—counseled in General Studies)</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 313 Biblical Interpretation</td>
<td>3 hours</td>
</tr>
<tr>
<td>HIS 355 History of Christianity</td>
<td>3 hours</td>
</tr>
<tr>
<td>HTH 373 Christian Doctrines</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 213 Introduction to Philosophy or PHI 225 Introduction to Ethics</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

ADDITIONAL EMPHASIS REQUIREMENTS (SELECT ONE)

1. Biblical Studies

Choose 12 hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIB 333 Old Testament Prophets</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 347 The Pentateuch</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 353 Old Testament Poetry</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 423 General Epistles and Revelation</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 433 Life and Teachings of Christ</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 443 Life and Letters of Paul</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 461 Biblical Backgrounds</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 499 Independent Study</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

GRK 373, 383 Advanced Greek Grammar I, II

Electives chosen from Historical/Theological Studies and/or Practical Ministries | 6 hours |

TOTAL | 69 hours |

2. Historical/Theological Studies

Choose 12 hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTH 303 Baptist and American Church History</td>
<td>3 hours</td>
</tr>
<tr>
<td>HTH 333 Christian Missions</td>
<td>3 hours</td>
</tr>
<tr>
<td>HTH 353 Psychology of Religion</td>
<td>3 hours</td>
</tr>
<tr>
<td>HTH 463 World Religions</td>
<td>3 hours</td>
</tr>
<tr>
<td>HTH 499 Independent Study</td>
<td>3 hours</td>
</tr>
<tr>
<td>GRK 373, 383 Advanced Greek Grammar I, II</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

Electives chosen from Biblical Studies and/or Practical Ministries | 6 hours |

TOTAL | 69 hours |

3. Practical Ministries

Choose 12 hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 301 Foundations of Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 201 Development in Ministries</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 211 Training in Christian Discipleship I</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 212 Training in Christian Discipleship II</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 213 A Survey of Christian Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 243 Church Administration</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 270 Christian Drama</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 303 Church Recreation</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 325 Evangelism</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 363 Instructional Media</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 373 Pastoral Ministries</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 383 Homiletics</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 399 Hymnology</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 405 Ministerial Internship</td>
<td>3 hours</td>
</tr>
<tr>
<td>MIN 410 Clinical Pastoral Training</td>
<td>6 hours</td>
</tr>
<tr>
<td>MIN 499 Independent Study</td>
<td>6 hours</td>
</tr>
</tbody>
</table>

Electives chosen from Biblical Studies and/or Historical/Theological Studies | 6 hours |

TOTAL | 69 hours |

REQUIREMENTS FOR A MINOR IN CHRISTIAN STUDIES

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIB 113 Old Testament History</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIB 123 New Testament History</td>
<td>3 hours</td>
</tr>
<tr>
<td>HTH 373 Christian Doctrines</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

TOTAL | 9 hours |

REQUIREMENTS FOR A MINOR IN GREEK

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GRK 274, 284 Beginner's Greek I, II</td>
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</tr>
<tr>
<td>GRK 373, 383 Advanced Greek Grammar I, II</td>
<td>6 hours</td>
</tr>
<tr>
<td>GRK 499 Independent Study</td>
<td>4 hours</td>
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</table>

TOTAL | 18 hours |
### Requirements for a Minor in Philosophy

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PHI 213</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHI 312</td>
<td>Foundations of Western Thought or PHI 313</td>
<td>3</td>
</tr>
<tr>
<td>PHI 314</td>
<td>The Modern Mind</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
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<td>TOTAL</td>
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#### BIBLE

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<tr>
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<tbody>
<tr>
<td>BIB 101</td>
<td>OLD TESTAMENT HISTORY</td>
<td>3</td>
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<tr>
<td>BIB 102</td>
<td>NEW TESTAMENT HISTORY</td>
<td>3</td>
</tr>
<tr>
<td>BIB 103</td>
<td>OLD TESTAMENT PROPHETS</td>
<td>2</td>
</tr>
<tr>
<td>BIB 104</td>
<td>THE PENTATEUCH</td>
<td>3</td>
</tr>
<tr>
<td>BIB 105</td>
<td>OLD TESTAMENT POETRY</td>
<td>3</td>
</tr>
<tr>
<td>BIB 107</td>
<td>DEUTERONOMY</td>
<td>3</td>
</tr>
<tr>
<td>BIB 108</td>
<td>DEVELOPMENT IN MINISTRIES</td>
<td>3</td>
</tr>
<tr>
<td>BIB 109</td>
<td>TRAINING IN CHRISTIAN EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>BIB 110</td>
<td>SURVEY OF CHRISTIAN EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>BIB 111</td>
<td>CHURCH ADMINISTRATION</td>
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#### CHRISTIAN STUDIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIB 101</td>
<td>OLD TESTAMENT HISTORY</td>
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</tr>
<tr>
<td>BIB 102</td>
<td>NEW TESTAMENT HISTORY</td>
<td>3</td>
</tr>
<tr>
<td>BIB 103</td>
<td>OLD TESTAMENT PROPHETS</td>
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</tr>
<tr>
<td>BIB 104</td>
<td>THE PENTATEUCH</td>
<td>3</td>
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<td>BIB 105</td>
<td>OLD TESTAMENT POETRY</td>
<td>3</td>
</tr>
<tr>
<td>BIB 107</td>
<td>DEUTERONOMY</td>
<td>3</td>
</tr>
<tr>
<td>BIB 108</td>
<td>DEVELOPMENT IN MINISTRIES</td>
<td>3</td>
</tr>
<tr>
<td>BIB 109</td>
<td>TRAINING IN CHRISTIAN EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>BIB 110</td>
<td>SURVEY OF CHRISTIAN EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>BIB 111</td>
<td>CHURCH ADMINISTRATION</td>
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#### MINOR IN CHRISTIAN DRAMA

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>270</td>
<td>SEE TBE 270 on page 146.</td>
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#### MINOR IN CHURCH RECREATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>136</td>
<td>SEE REC 303 on page 75.</td>
<td></td>
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</tbody>
</table>

#### MINOR IN EVANGELISM

<table>
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<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>123</td>
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#### MINOR IN INSTRUCTIONAL MEDIA

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<thead>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>163</td>
<td>SEE EDU 163 on page 128.</td>
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</tbody>
</table>

#### MINOR IN PASTORAL MINISTRY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
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<tr>
<td>373</td>
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#### MINOR IN MINISTERS INTERNSHIP

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>405</td>
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#### HISTORICAL/THEOLOGICAL STUDIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>178</td>
<td>SEE HIST 303 on page 70</td>
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</tbody>
</table>

#### HISTORICAL/FAITH AND REASON

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>315</td>
<td>On demand/3 hours</td>
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#### HISTORICAL/PSYCHOLOGY OF RELIGION

<table>
<thead>
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<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>333</td>
<td>Spring, 1996, and alternate years/3 hours</td>
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</tr>
<tr>
<td>333</td>
<td>Also MCH 372 on page 141.</td>
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#### HISTORICAL/HISTORY OF CHRISTIANITY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>351</td>
<td>SEE HIS 351 on page 80</td>
<td></td>
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#### HISTORICAL/CHRISTIAN DOCTRINES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>373</td>
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#### HISTORICAL/CLINICAL PASTORAL TRAINING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>410</td>
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#### HISTORICAL/DEPARTMENT TUTORING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>596</td>
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#### HISTORICAL/EVENTS AND REVELATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>423</td>
<td>Spring, 1992, and alternate years/3 hours</td>
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#### HISTORICAL/GENERAL EPistles and REVELATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>243</td>
<td>Spring, 1991, and alternate years/3 hours</td>
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</table>

#### HISTORICAL/CHRISTIAN ADMINISTRATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>243</td>
<td>Spring, 1991, and alternate years/3 hours</td>
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</tbody>
</table>

#### HISTORICAL/CHRISTIAN SOCIAL MINISTRIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>315</td>
<td>Spring, 1996, and alternate years/3 hours</td>
<td></td>
</tr>
</tbody>
</table>

#### HISTORICAL/SOCIAL MINISTRIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>315</td>
<td>Spring, 1996, and alternate years/3 hours</td>
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#### HISTORICAL/EVENTS AND REVELATION

<table>
<thead>
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<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>243</td>
<td>Spring, 1991, and alternate years/3 hours</td>
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#### HISTORICAL/CHRISTIAN ADMINISTRATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>243</td>
<td>Spring, 1991, and alternate years/3 hours</td>
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</tr>
</tbody>
</table>

#### HISTORICAL/SOCIAL MINISTRIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>315</td>
<td>Spring, 1996, and alternate years/3 hours</td>
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#### HISTORICAL/EVENTS AND REVELATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>243</td>
<td>Spring, 1991, and alternate years/3 hours</td>
<td></td>
</tr>
</tbody>
</table>
NEW TESTAMENT GREEK

The courses in Greek are designed to enable the student to acquire an early mastery of the essentials of inflection and syntax, to resolve the principal difficulties of grammatical analysis, and to develop in the student a vigorous and independent interest in the Greek New Testament. Fourteen hours of Greek (two years) are recommended for the Bachelor of Arts degree. Students who plan to enter the Master of Divinity program in seminary should take at least one year of Greek in college.

GRK BEGINNER’S GREEK I 274 Fall, 1981, and alternate years/6 hours Offered for persons who are studying Greek for the first time or for those whose preparation is not adequate for entering a more advanced class in Greek. Designed to give the fundamentum necessary to study the Greek New Testament. For prerequisites: Sophomore standing or instructor’s approval.

GRK BEGINNER’S GREEK II 281 Spring, 1981, and alternate years/4 hours Continuation of GRK 274. A study of Davis’ Grammar is completed, with simple exercises for reading and translation. Special attention is given to the meaning of cases, prepositions, and tenses.

GRK ADVANCED GREEK GRAMMAR I 373 Fall, 1980, and alternate years/3 hours For second-year students of the Greek New Testament. Forms, syntax, and prose compositions are reviewed. The student is required to translate 1 Thessalonians and is given, with each lesson, a demonstration of the significance of Greek forms as vital to accurate translation. Prerequisites: GRK 281.

GRK ADVANCED GREEK GRAMMAR II 383 Spring, 1981, and alternate years/3 hours Continuation of GRK 373. This course includes an exegesis of one short New Testament book, designed to help prepare the student for the use of the most effective methods of exegesis of the Greek New Testament. Prerequisite: GRK 373.

GRK DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

GRK INDEPENDENT STUDY 499 Every semester/1-4 hours See page 51.

TUT VOLUNTEER TUTORING 300 Every semester/1-4 hours For course description see TUT 300/400 on page 112.

PHI INTRODUCTION TO LOGIC 215 Every Fall/3 hours A study of the principles of correct reasoning, with emphasis on distinguishing between good and bad arguments of various types.

PHI INTRODUCTION TO ETHICS 225 Every Spring/2 hours An introductory study of some the central concepts, procedures and issues in the field of ethics, focusing on the nature of ethical thinking and how it applies to particular judgments about actions, character, and values. Topics to be considered include ethical relativism, morality and self interest, the basis of moral obligation, moral versus vices, and the relevance of religious beliefs to morality.

PHI ETHICS FOR THE PROFESSIONS 311 Every semester/3 hours An introduction to ethics with emphasis on the application of moral concepts and principles to professional life. Includes an examination of various theoretical perspectives on moral judgment as well as a study of the significance of Christian faith for ethical thought. Makes extensive use of case studies. May be taken with either a business or health care emphasis. Prerequisite: Junior standing and a passing grade on the Writing Proficiency Exam.

PHI FOUNDATIONS OF WESTERN THOUGHT 312 Fall, 1981, and alternate years/3 hours A survey of the development of Western Thought from ancient Greece through the Middle Ages, with particular emphasis on the contributions of Plato and Aristotle. Prerequisite: PHI 213 or instructor’s approval.

PHI SHAPERS OF THE MODERN MIND 313 Fall, 1980, and alternate years/3 hours A study of thinkers from the Renaissance to contemporary times who have helped to form our understanding of ourselves and the world we live in. Focus will be on major philosophical systems of the modern period. Prerequisite: PHI 213 or instructor’s approval.

PHI FAITH AND REASON 315 On demand/1 hour Also HTH 315. An examination of the reasonableness of religious beliefs, especially beliefs which are central to the Christian Faith. Topics include arguments for the existence of God, religious experience, the problems of evil, miracles, religions language, and life after death. Prerequisite: PHI 213.

PHI DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

PHI WORLD RELIGIONS 463 See HTH 463 on page 67.

PHI INDEPENDENT STUDY 499 On demand/1-4 hours See page 51.

TUT VOLUNTEER TUTORING 300 Every semester/1-4 hours For course description see TUT 300/400 on page 112.

DEPARTMENT DESCRIPTION

The Department of Computer Science provides courses for students who major in computer science or computer science for secondary teachers. It prepares students for graduate study or employment in business, industry, government, or teaching. The department also provides a broad introduction to computer science - including word processing, spreadsheets, and data base - for students majoring in other fields.

All computer science majors must take the Graduate Record Examination during their senior year.

The facilities for computer science include a Computer Center, VAX 11/750 computer and terminals, about 40 IBM-PCs, and various other computers. Students have immediate access to most computers and printers because the University increases the number of computers as demand dictates.

DEGREE REQUIREMENTS — COMPUTER SCIENCE

REQUIREMENTS FOR A MAJOR IN COMPUTER SCIENCE (B.S. DEGREE)

CS 115, 203, 213, 301, 303, 310, 413, 420, 430 27 hours
CS 480 Readings in Current Literature 3 hours
Computer Science Electives (6 hours Upper Division) 9 hours
MAT 270, 271 Calculus I and II 8 hours
MAT 345 Discrete Mathematics 3 hours
MAT 363 Probability and Statistics 3 hours
Elective in Public Speaking 3 hours

TOTAL 56 hours
**REQUIREMENTS FOR A MAJOR IN COMPUTER SCIENCE FOR SECONDARY TEACHERS (B.S. DEGREE)**

- CS 133 Introduction to Computer Science 3 hours
- CS 155/EDU 355 Using Computers in the Classroom 3 hours
- CS 203 Beginning Structured Programming 3 hours
- CS 213 Intermediate Structured Programming 3 hours
- CS 356 Programming for Teachers 3 hours
- CS 333 Computer Curriculum Management 3 hours
- Electives in Computer Science 12 hours
- Certification in Secondary Education 36 hours
- A Teaching Minor 24 hours

**TOTAL** 90 hours

Refer to College of Education for certification requirements.

**REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE**

- CS 203 Beginning Structured Programming 3 hours
- CS 213 Intermediate Structured Programming 3 hours
- Electives in Computer Science (6 hours Upper Division) 12 hours

**TOTAL** 18 hours

* Students interested in teaching should take 24 hours for a minor.

---

**COMPUTER SCIENCE**

**CS 133 INTRODUCTION TO COMPUTER SCIENCE**

- **Every semester/3 hours**

  A basic study of applications of electronic data processing, including word processors, spreadsheets, and data base management systems, with extensive hands-on experience; plus an overview of basic computer literacy topics.

---

**CS 155 THE CLASSROOM**

- **Every January Term on demand/3 hours**

  For course description see EDU 355 on page 128.

---

**CS 203 BEGINNING STRUCTURED PROGRAMMING**

- **Every semester/5 hours**

  An introductory study of structured programming using the language Pascal. Topics include: computer organization, problem solving, algorithm design, and flowcharting.

---

**CS 213 INTERMEDIATE STRUCTURED PROGRAMMING**

- **Every semester/5 hours**

  A continued study of structured programming, using the language Pascal. Topics include: debugging and testing, sizing processing, internal searching and sorting, data structures, and recursion. Prerequisite: CS 203.

---

**CS 223 COBOL**

- **Every Spring/3 hours**

  Programming techniques and algorithm translation in the language COBOL. Emphasis on business applications.

---

**CS 356 PROGRAMMING FOR TEACHERS**

- **Fall, 1996, and alternate years/3 hours**

  This course will provide background in the languages BASIC and LOGO, and practical experience in how to teach programming. Prerequisites: CS 203, CS 213.

---

**CS DEPARTMENTAL TUTORING**

- **Every semester/2 hours**

  For course description see ACC 396 on page 112.

---

**CS PRACTICUM**

- **Every semester/1-4 hours**

  See page 51.

---

**CS INTRODUCTION TO DATA STRUCTURES**

- **Every Spring/3 hours**

  A study of the implementation of different data structures, including trees, lists, stacks, and queues. Also included will be a brief look at large data base management. Prerequisite: CS 303.

---

**CS OPERATING SYSTEMS**

- **Every Fall/3 hours**

  A study of several different operating systems, and operating system structure in general. Topics include: dynamic procedure activation, system structure, memory and process management, and the evaluation of operating systems. Prerequisite: CS 303.

---

**CS SOFTWARE ENGINEERING**

- **Every Spring/3 hours**

  A study of the problems involved in producing large pieces of software. Topics include: Algorithm analysis and design, organization and management, resource estimation, and project control. Prerequisite: CS 303.

---

**CS 301 COMPUTER ORGANIZATION AND ARCHITECTURE**

- **Every Spring/3 hours**

  A study of computer architecture and organization using microprocessors to illustrate key principles. Topics include: digital logic, cpu organization and architecture, addressing and memory organization, interrupts, and peripheral interfacing. Prerequisite: CS 301.

---

**CS 303 ASSEMBLY LANGUAGE PROGRAMMING**

- **Every Fall/3 hours**

  A study of the techniques needed to program a computer in its own assembly language. Topics include: addressing techniques, macros, file I/O, program segmentation and linkage, and assembler construction. Prerequisite: CS 213.

---

**CS 310 SURVEY OF LANGUAGES**

- **Every Fall/3 hours**

  A look at the structure of several high-level languages. Topics include: the definition of a language, language structure and design, data types and structures, interpretive languages, and lexical analysis and parsing. Prerequisite: CS 303.

---

**CS TOPICS IN COMPUTER SCIENCE**

- **Every semester/3 hours**

  An in-depth study of one particular topic each semester. May be repeated for credit. Prerequisite: Instructor's approval.

---

**CS COMPUTER CURRICULUM MANAGEMENT**

- **Spring, 1996, and alternate years/3 hours**

  This course provides a basic knowledge of the tools and procedures available for creating and maintaining a computer science curriculum. Prerequisites: CS 203, CS 213.

---

**CS READINGS IN CURRENT LITERATURE**

- **Every semester/3 hours**

  A supervised self-paced course involving an appropriate amount of reading in current computer science topics, including the preparation and presentation of a paper at a senior seminar. Prerequisite: Senior standing.

---

**CS RESEARCH IN COMPUTER SCIENCE**

- **Every semester/3-3 hours**

  A detailed study of one or more problems in computer science. May be repeated for up to 9 hours of credit, 3 of which may count toward electives in computer science. Prerequisite: Consultation with and instructor's approval.

---

**CS INDEPENDENT STUDY**

- **On demand/1-4 hours**

  See page 51.

---

**TUT VOLUNTEER TUTORING**

- **300/400 credits**

  For course description see TUT 300-400 on page 112.
DEPARTMENT DESCRIPTION

The purpose of required physical education is to maintain the physical vitality of students and to develop interests and activities that will continue beyond school. The work includes conditioning exercises, individual activities, and adult sports.

Courses are provided to achieve the following aims: (1) to offer a varied program of physical activity which will contribute to the well-being of the students and (2) to train men and women as health and physical education teachers and coaches.

Upon written recommendation of a medical doctor and approval of the Department of Physical Education and the Vice President for Academic Affairs, a three-hour course in physical education or health education may be substituted for the entire requirement in physical activity courses. Normally, one of the following courses suffices: PE 213, HLT 203, HLT 213.

Veterans of the armed services may receive up to four hours credit for physical education activity courses on the basis of military service. In general, one hour’s credit for each 90 days of active service is allowed. This credit is not granted automatically to veterans. In order to establish the credits, the student must comply with instructions given by the Records Office.

DEGREE REQUIREMENTS — HEALTH EDUCATION

REQUIREMENTS FOR A MINOR IN HEALTH EDUCATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLT 203 First Aid &amp; Safety</td>
<td>3</td>
</tr>
<tr>
<td>HLT 213 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HLT 333 School Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>HLT 343 Principles of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>HLT 353 Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HLT 365 Methods of Teaching</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

DEGREE REQUIREMENTS — PHYSICAL EDUCATION

REQUIREMENTS FOR A MAJOR IN PHYSICAL EDUCATION (B.S. DEGREE)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 101, 111, 121, 131, 211, 231, 241 (choice)</td>
<td>Any 4</td>
</tr>
<tr>
<td>PE 243 History and Principles</td>
<td>3</td>
</tr>
<tr>
<td>PE 282 Professional Activities</td>
<td>2</td>
</tr>
<tr>
<td>PE 292 Professional Activities</td>
<td>2</td>
</tr>
<tr>
<td>PE 303 Measurement in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 313 Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PE 323 or 413 Physical Education for Elementary Grades or Physical Education in Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>PE 373 Recreation Administration</td>
<td>3</td>
</tr>
<tr>
<td>PE 393 Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PE 423 Organization &amp; Administration</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education Electives</td>
<td>4</td>
</tr>
<tr>
<td>HLT 353 Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

Note: Students who wish to qualify for K-12 certification must earn 45 hours which include both PE 413 and 323. Refer to College of Education for certification requirements.

DEGREE REQUIREMENTS — RECREATION

REQUIREMENTS FOR A MINOR IN RECREATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLT 203 First Aid &amp; Safety</td>
<td>3</td>
</tr>
<tr>
<td>PE 282 Professional Activities</td>
<td>2</td>
</tr>
<tr>
<td>REC 213 Recreation Activities</td>
<td>3</td>
</tr>
<tr>
<td>REC 303 Church Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 315 Outdoor Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 373 Recreation Administration</td>
<td>3</td>
</tr>
<tr>
<td>RBC 403 Internship In Recreation</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>25</strong></td>
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</tbody>
</table>

HEALTH EDUCATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLT 201</td>
<td>4</td>
</tr>
<tr>
<td>HLT 353 Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

Health & Physical Education

72

College of Arts & Sciences

73
PHYSICAL EDUCATION

Courses taken to fulfill the Physical Education activity requirement for graduation should be taken during the freshman and sophomore years. There is no prerequisite and no particular order in which they need to be taken. Each class meets twice a week. Two different sports must be included.

PE GOLF Every semester/1 hour 241
Instruction and practice in stance, grip, stroke, teeing of the ball, and use of different clubs.

PE HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION Every Fall/3 hours 243
A study of the aims and objectives of physical education, of its standards, ideals, principles and policies, and of the place of physical education in modern life. The history of physical education is also studied, emphasizing leaders of the past and present.

PE KARATE Every semester/1 hour 251
A course designed to teach basic karate. Students will be instructed in the fundamentals of upperbody movements, kicks, kata, and sparring techniques as required for belt promotions.

PE PROFESSIONAL ACTIVITIES Every Fall/2-3 hours 282
Individual and dual sports. Skills in physical education activities for the physical education major and minor. (Three class periods per week.)

PE PROFESSIONAL ACTIVITIES Every Spring/2 hours 292
Team sports. Skills in physical education activities for the physical education major and minor. (Three class periods per week)

PE MEASUREMENT IN PHYSICAL EDUCATION Every Spring/3 hours 303
Tests and measurements in physical education; date analysis techniques for test evaluation, test construction, and grading. Also deals with test of fitness and sports skills.

PE KINESIOLOGY Every Spring/2 hours 313
A study of the location, mechanics, and action of the principal muscles of the body and their relation to the various systems of physical skills. Prerequisite: PE 241 and HLT 353.

PE CARE & PREVENTION OF ATHLETIC INJURIES Every Spring/1 hour 314
A course designed to provide the students with a basic knowledge and understanding of the principles of sports medicine and the care and treatment of athletic trauma and the use of proper conditioning principles in prevention of injury. Recommended prerequisite: PE 213.

PE PHYSICAL EDUCATION FOR ELEMENTARY GRADES Every Spring/3 hours 323
A study of the development of a program of physical activities adapted to the school situation and to the individual needs of the child.

PE ATHLETIC COACHING, BASEBALL Every Fall/3 hours 333
A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy.

PE PHYSICAL EDUCATION FOR THE EXCEPTIONAL CHILD Every Fall/3 hours 363
A course designed to develop methods and techniques of teaching the exceptional child in motor activities. Emphasis is also placed on the activities and programs to be included in the curriculum.

PE RECREATION ADMINISTRATION Every Spring/2 hours 373
Also REC 373. A study of the philosophy, scope, and basic values of recreation, its organization, and administration.

PE ATHLETIC COACHING, BASEBALL Every Fall/3 hours 383
A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy.

PE PHYSIOLOGY OF EXERCISE Every Fall/3 hours 395
A study of the effects of exercise on the body. It includes the study of the body's responses and adaptations to exercise or rhythmic as well as the subcritical level. Prerequisite: PE 313.

PE DEPARTMENTAL TUTORING Every semester/1 hour 396
For course description see ACC 360 on page 112.

PE PRACTICUM 399
On demand/2-4 hours See page 51.

PE PHYSICAL EDUCATION IN SECONDARY SCHOOL Every Fall/3 hours 413
Designed for persons who plan to teach physical education at the high school level. Topics include classification of students, organization of classes, choice and selection of appropriate activities and materials, progression, and testing. Prerequisite: PE 283.

PE ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION Every Spring/3 hours 423
Designed for majors in physical education. Deals with possible administrative problems in departments of physical education in all types of educational institutions. Prerequisites: PE 243 and 413.

TUT VOLUNTEER TUTORING Every semester/No credit 499
On demand/2-4 hours See page 51.

RECREATION

REC INTRODUCTION TO RECREATION Every Spring/3 hours 203
A course designed to introduce the student to the philosophy and early development of recreation in America. It is also structured to examine the role and status of the various agencies engaged in recreation programs.

REC RECREATIONAL ACTIVITIES Every Fall/3 hours See PE 213 on page 74.

REC CHURCH RECREATION Every Fall/3 hours 303
Also MUS 303. A course designed to give specific directions in program planning and techniques for setting up and implementing a total church recreation program.

REC OUTDOOR RECREATION Every Fall/3 hours 313
January Term or on demand/3 hours

REC RECREATION ADMINISTRATION Every Spring/3 hours See PE 373 on this page.

REC DEPARTMENTAL TUTORING Every semester/2 hours 396
For course description see ACC 396 on page 112.

REC INTERNSHIP IN RECREATION Every semester/3 hours 403
The student is assigned to an approved recreational facility to serve as a leader or assistant under the supervision of a recreation employer by a specified number of hours. Periodic conferences and evaluations are scheduled with the supervising teacher. Prerequisites: REC 203 and REC 373.

TUT VOLUNTEER TUTORING Every semester/No credit 499
On demand/2-4 hours See page 51.
Christian College Coalition, offers an American Studies Program in Washington D.C. and a Latin American Studies Program in San Jose, Costa Rica. A fuller description of these two programs are found on pages 8 and 9. Interested students should pick up application forms and application deadline information from department faculty.

**DEGREE REQUIREMENTS — BEHAVIORAL SCIENCES**

**REQUIREMENTS FOR A MINOR IN BEHAVIORAL SCIENCES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 313 Cultural Anthropology or SOC 323 History of Social Thought</td>
<td>3</td>
</tr>
<tr>
<td>PST 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHB 213 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives in Psychology or Sociology</td>
<td>6</td>
</tr>
</tbody>
</table>

**TOTAL** 18 hours

**NOTE:** not recommended for prospective teachers in secondary education.

**DEGREE REQUIREMENTS — GOVERNMENT**

**REQUIREMENTS FOR A MINOR IN GOVERNMENT**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOV 203 Federal and Arizona Government</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Government</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL** 18 hours

**DEGREE REQUIREMENTS — HISTORY**

**REQUIREMENTS FOR A MAJOR IN HISTORY (B.A. DEGREE)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 101 and 102 Western Civilization to 1815</td>
<td>6</td>
</tr>
<tr>
<td>HIS 103 and 104 Early and Recent American History</td>
<td>3</td>
</tr>
<tr>
<td>HIS 321 Ancient and Medieval History</td>
<td>3</td>
</tr>
<tr>
<td>HIS 483 History Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Electives in History</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL** 33 hours

* There may be electives of 6 hours from Government 335, 337, 339, 341.

**REQUIREMENTS FOR A MINOR IN HISTORY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 101 and 102 Western Civilization to 1815</td>
<td>6</td>
</tr>
<tr>
<td>HIS 103 and 104 Early and Recent American History</td>
<td>6</td>
</tr>
<tr>
<td>HIS 321 Ancient and Medieval History</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives in History</td>
<td>6</td>
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</tbody>
</table>

**TOTAL** 21 hours

**DEGREE REQUIREMENTS — JUSTICE STUDIES**

**REQUIREMENTS FOR A MAJOR IN JUSTICE STUDIES (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUS 200 Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>JUS 201 Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 373 Social Research (SOC 373)</td>
<td>3</td>
</tr>
<tr>
<td>JUS 380 Theory of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 400 Internship in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 440 Criminal Justice Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Justice Studies</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL** 33 hours

**REQUIREMENTS FOR A MINOR IN JUSTICE STUDIES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUS 200 Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>JUS 201 Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 380 Theory of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 400 Internship in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 440 Criminal Justice Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives from the following:</td>
<td>9</td>
</tr>
<tr>
<td>JUS 306 Police Function</td>
<td>9</td>
</tr>
<tr>
<td>JUS 308 Jurisdiction Function</td>
<td>3</td>
</tr>
<tr>
<td>JUS 310 Correction Function</td>
<td>3</td>
</tr>
<tr>
<td>JUS 461 Substantive Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>JUS 462 Procedural Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>JUS 480 Criminal Justice Education</td>
<td>3</td>
</tr>
<tr>
<td>JUS 498 Pro Seminar</td>
<td>3</td>
</tr>
<tr>
<td>JUS 499 Independent Study</td>
<td>3</td>
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</table>

**TOTAL** 24 hours

**DEGREE REQUIREMENTS — PSYCHOLOGY**

**REQUIREMENTS FOR A MAJOR IN PSYCHOLOGY (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PST 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PST 253 Personality Development</td>
<td>3</td>
</tr>
<tr>
<td>PST 303 Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PST 313 Learning and Cognition</td>
<td>3</td>
</tr>
<tr>
<td>PST 323 History and Systems of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PST 363 Introduction to Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PST 367 Experimental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PST 435 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 34 hours

**REQUIREMENTS FOR A MINOR IN PSYCHOLOGY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PST 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PST 253 Personality Development</td>
<td>3</td>
</tr>
<tr>
<td>PST 303 Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 18 hours
DEGREE REQUIREMENTS — SOCIOLOGY

REQUIREMENTS FOR A MAJOR IN SOCIOLOGY (B.S. DEGREE)

SOC 101 Introduction to Sociology and SOC 223 Social Problems 6 hours
SOC 323 History of Social Thought 3 hours
SOC 362 Introduction to Probability and Statistics 3 hours
SOC 371 Social Research 3 hours
* Upper Division Electives in Sociology 18 hours

TOTAL 33 hours

REQUIREMENTS FOR A MINOR IN SOCIOLOGY

SOC 101 Introduction to Sociology and SOC 223 Social Problems 6 hours
* Electives in Sociology (6 hours must be Upper Division) 12 hours

TOTAL 18 hours

* Only 3 hours of the 6-hour sequence SOC 420/421 may count toward the major or minor.

GEOGRAPHY

GEO WORLD GEOGRAPHY 233 Every Spring/Semester
A study of the division of the physical environment and of the relationship of men to each division in the various geographic areas of the world.

GEO PHYSICAL GEOGRAPHY 313 Every Fall/Semester
A geographic study of climate, topography, disasters, soils, and plant and animal life and their influence on man and the development of civilization.

GEO DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

GEO PRACTICUM 399 On demand/4-6 hours See page 51

GEO INDEPENDENT STUDY 499 On demand/1-4 hours See page 51

TUT VoluntEER TUTORING 300/400 Every semester/No credits

For course description see TUT 300/400 on page 112.

GOVERNMENT

GOV FEDERAL AND ARIZONA GOVERNMENT 203 Every semester and every Summer/3 hours
A basic course in American and Arizona Government. The course is designed to give the student a broad outline of the workings of the government and to lay the groundwork for further studies. This course meets the teacher certification requirement for American and Arizona Government.

GOV ARIZONA GOVERNMENT 203 Every semester and every Summer/3 hours
The second half of GOV 203, a survey of Arizona History and Government. This half meet the teacher certification requirement for Arizona Government.

GOV COMPARATIVE GOVERNMENT 315 Spring, 1997, and alternate years/3 hours
A comparative study of the organization and operations of selected governments in the world today, with special attention given to the Soviet Union, England, France, the United States and the United Nations. Prerequisite: 6 hours of history or government.

GOV INTERNATIONAL RELATIONS 325 Fall, 1996, and alternate years/3 hours
A study of international relations and the operations of selected governments in the world today, with special attention given to the Soviet Union, England, France, the United States and the United Nations. Prerequisite: 6 hours of history or government.

GOV EARLY POLITICAL THOUGHT 333 Fall, 1996, and alternate years/3 hours
A study of the history of international politics, contemporary world power structure, and international law and organization. Prerequisite: 6 hours of history or government.

GOV CONTEMPORARY POLITICAL THOUGHT 343 Spring, 1997, and alternate years/3 hours
Continuation of GOV 333. Deals with the men and ideas which have affected government in the 19th and 20th centuries. Special attention is given to American political thought and to the study of socialism, communism, and fascism in the modern world. Prerequisite: GOV 333 or sufficient work in history or philosophy to provide an adequate background.

GOV AMERICAN DIPLOMATIC HISTORY 353 Spring, 1996, and alternate years/3 hours
The diplomatic history of the United States from independence to the present. A major emphasis is given to United States diplomacy and foreign policy since World War I. Prerequisite: 6 hours of history or government.

GOV DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

GOV PRACTICUM 399 On demand/4-6 hours See page 51

GOV CONSTITUTIONAL HISTORY OF THE UNITED STATES 423 Fall, 1996, and alternate years/3 hours
Also HIS 423. A study of the origin, development, interpretation, and expansion of the United States Constitution. Special emphasis is given to the interpretation of the Constitution by the courts. Prerequisite: 6 hours of history or government.

GOV INDEPENDENT STUDY 499 On demand/1-4 hours See page 51

HISTORY

HIS WESTERN CIVILIZATION TO 1815 101 Every semester/2 hours
The Renaissance and Reformation are studied and related to the transition from medieval to early modern culture. America is given to the rise of the centralized national state, to the rise and decline of absolutism, and to intellectual, political, and industrial revolutions of Europe and their impact upon the world into which Europe expanded.

HIS WESTERN CIVILIZATION SINCE 1815 102 Every semester/3 hours
A continuation of HIS 101 but students need not have taken HIS 101 before taking 102. A study of the swiftly changing tides of events that characterize the world of today. Emphasis is placed on the role of the United States in the 20th century.

HIS EARLY AMERICAN HISTORY 103 Every semester/3 hours
A study of European expansion in America, the English colonies, colonial society, the American Revolution and Constitution, the launch of the new government, nationalism and sectionalism, and the rise of the modern United States.

HIS RECENT AMERICAN HISTORY 104 Every semester/3 hours
Continuation of HIS 103. Deals with problems in the water of the Civil War, partisan expansion, the Industrial Revolution in America, transitions to a world power, and domestic and foreign issues of the 20th century.

HIS BAPTIST AND AMERICAN 303 CHURCH HISTORY Every Spring/1 hour
Also HTH 303. Continuation of HIS 103. This course covers the history of the Christian movement from Europe to the American colonies. The major emphasis is on the development of Baptist and Evangelical Christianity in the United States.

HIS HISTORY OF ENGLAND TO 1714 313 Fall, 1996, and alternate years/3 hours
A study of the origin and development of the English people, with particular attention given to their political, social, economic, and cultural institutions and their interaction with continental Europe. Prerequisite: HIS 101 or instructor’s approval.

HIS MODERN BRITAIN 314 Spring, 1997, and alternate years/1 hour
A study of the significant political, economic, and social development of 18th, 19th, and 20th century Britain, with particular attention given to the factors which contributed to Britain’s position as a leading power in the 19th century and its decline from that position in the 20th century. Prerequisite: HIS 101 or 102.
JUS 497 SPECIAL TOPICS IN CRIMINAL JUSTICE
On demand/3 hours
In depth study of chosen topics. Prerequisites: JUS 200, JUS 201, and one Upper Division justice studies' course or instructor's approval.

JUS PRO-SEMINAR
On demand/3 hours
Study and research for advanced students. Prerequisites: JUS 200, JUS 201, and one Upper Division justice studies' course or instructor's approval.

JUS INDEPENDENT STUDY
On demand/3 hours
Original study or investigation in the student's field of interest. Prerequisites: JUS 200, JUS 201, and one Upper Division justice studies' course or instructor's approval.

TUT VOLUNTEER TUTORING
300 Every semester/No credit
For course description see TUT 300/400 on page 112.

PSYCHOLOGY

PSY GENERAL PSYCHOLOGY
101 Every Fall/Fall
A foundation course in the science of behavior. Includes a study of the origin and development of behavior patterns, motivation, emotional behavior, sensory functions, perception, intelligent behavior, and adjustment. Some experiments constitute a basic part of the course.

PSY HUMAN GROWTH AND DEVELOPMENT
250 Every semester/3 hours
A course in developmental psychology with emphasis on the physical, social, cognitive, personal, and moral developments within an individual. The course is designed to provide an understanding of the transitions of life from conception to death. May not be used in place with prior credit in Child Psychology. Not available to students with a Psychology major or minor.

PSY PERSONALITY DEVELOPMENT
253 Every semester/3 hours
An analysis of personal behavior and its development in the life of an individual. Topics include motivation, coping with stress, interpersonal relationships, and personal growth and change.

PSY SOCIAL PSYCHOLOGY
103 Every, Spring
Also SOC 103. A study of social and group factors affecting individual behavior. Attention is given to the development of attitudes, leadership roles, group thinking, sources of conflict, effects of competition and cooperation, analysis and evaluation of propaganda techniques, and the influence of mass communication on social attitudes and control. Prerequisites: PSY 101 or SOC 101.

PSY LEARNING AND COGNITION
113 Every semester/3 hours
The study of theoretical and empirical problems of human learning and cognitive behavior. The nature of learning processes, memory, attention, information processing, concept attainment, and problem solving will be explored. Prerequisite: PSY 101.

JUS THE THEORY OF CRIMINAL JUSTICE
380 On demand/3 hours
An examination of the criminal justice system with emphasis on the psychological, biological, and social causes of crime. Prerequisites: JUS 200, JUS 201, and one Upper Division justice studies' course or instructor's approval.

JUS DEPARTMENTAL TUTORING
396 Every semester/2 hours
For course description see ACC 396 on page 112.

JUS INTERNSHIP IN CRIMINAL JUSTICE
400 On demand/3 hours
Placement of students in a criminal justice or related agency to further the student's integration of theory with practice. Prerequisites: JUS 200, JUS 201.

JUS PRINCIPLES OF RESIDENTIAL 420 TREATMENT OF ADOLESCENTS I & II
321 See SOC 420/421 on page 84.

JUS CRIMINAL JUSTICE MANAGEMENT 440 On demand/3 hours
Analysis of organization structures in police, courts, and corrections. Management and administrative policies of criminal justice agencies are examined. Prerequisites: JUS 200, JUS 201, and one Upper Division justice studies' course or instructor's approval.

JUS SUBSTANTIVE CRIMINAL LAW 480 On demand/3 hours
Study of criminal liability with emphasis on crimes against life, property, and society. Prerequisites: JUS 200, JUS 201, or instructor's approval.

JUS PROCEDURAL CRIMINAL LAW 482 Spring, Fall, and alternate years
Study of the criminal process as it relates to the constitution. Prerequisites: JUS 200, JUS 201 or instructor's approval.

JUS CRIMINAL JUSTICE EDUCATION 480 On demand/3 hours
Development and philosophy of criminal justice education and training. Problems of curriculum development and evaluation. Examination and evaluation of teaching methodologies and instruc- tional aids. Prerequisites: JUS 200, JUS 201 or instructor's approval.

JUS SOCIAL RESEARCH
373 Also SOC 373
Investigation of techniques of social research, including hypothesis construction and testing, research design, collection and analysis of data and presentation of research results. Prerequisite: SOC 101.
PSY PERSONALITY PSYCHOLOGY
315 Fall, 1990, and alternate years/3 hours
A study of the nature and causal determinants of human behavior, including the definition and scientific measurement of personality. Themes studied will include the psychodynamic, neo-Freudian, trait and factor, cognitive, and behavioral theories. The Christian perspective on the nature of human personality will also be explored. Prerequisite: PSY 101.

PSY HISTORY AND SYSTEMS OF
325 PSYCHOLOGY
Spring, 1990, and alternate years/3 hours or 3-credit
A study of the origins, developments, influences, changes, and current systems of thought and experimentation in psychology. Normally taken by sophomores or juniors but may be taken by permission during the second semester of the freshman year by students who have made at least a "B" in PSY 101 during the first semester of their freshman year. Prerequisite: PSY 101.

PSY MOTIVATION AND EMOTION
325 Fall, 1990, and alternate years/3 hours or 3-credit
An investigation of the purposes for human behavior from the perspective of behavioral, cognitive, ethological, psychoanalytic, psychophysical, and other perspectives. Topics covered are lower-level needs, instincts, emotions, drives, rewards, conflict, stress, aggression, achievement motivation, and achieving full potential. Prerequisite: PSY 101.

PSY PSYCHOLOGY IN RELIGION
335 Fall, and alternate years/3 hours
A study of the role of religion in the human psyche and the relationship between religious behavior and psychological processes. Prerequisite: PSY 101.

PSY CHILD PSYCHOLOGY
335 Every semester and every Summer/3 hours
An analysis of infant behavior; a study of the motor and emotional development of children; motivation, thinking, work, and play in child life; and the social and emotional integration of personality. Prerequisite: PSY 101.

PSY INTRODUCTION TO PROBABILITY
360 & STATISTICS
Also SOC 362.
A study of elementary theories of probability, distribution, and testing of statistical hypotheses. Practical experience is provided in the application of statistical methods. Prerequisite: PSY 101.

PSY INDUSTRIAL PSYCHOLOGY
365 Spring, 1991, and alternate years/3 hours
The application of social and organizational psychological methods and principles to business and industry. Topics to be covered include human behavior at work, personnel selection and evaluation, motivation and job satisfaction, management philosophy, employee-management relationships, job evaluation, work and equipment design, working conditions, accident and human error, and consumer psychology. Prerequisite: PSY 101.

PSY EXPERIMENTAL PSYCHOLOGY
367 Every Spring/4 hours
A laboratory course emphasizing both the theoretical and applied aspects of experimental design and research methodology. A variety of experiments will be performed in such areas as learning, motivation, and perception. Prerequisite: PSY 101 and PSY 103.

PSY ADOLESCENT PSYCHOLOGY
373 Every semester/3 hours
An examination of the meaning and significance of adolescence; physical, mental, moral, and religious development; adolescent impulses, interests, and social tendencies; the holophrases of adolescence; and the guidance and control of adolescent behavior. Prerequisite: PSY 101.

PSY DEPARTMENTAL TUTORING
390 Every semester
For course description see ACC 390 on page 112.

PSY PSYCHOLOGY OF DEATH AND DYING
401 January Term on demand/3 hours
A study of the process of grief and dying. The psychological adjustments of the individual family and professional are examined. The student examines his or her own attitudes, values, and beliefs pertaining to death and dying.

PSY PHYSIOLOGICAL PSYCHOLOGY
405 Every Fall/3 hours
A course emphasizing the relationship between brain and behavior. Role of genetics, neural, hormonal, and psychological processes in sensation, perception, motivation, and learning will be discussed in connection with recent research. Prerequisite: BIOL 201.

PSY SENSATION AND PERCEPTION
415 Spring, 1991, and alternate years/3 hours
Theories, research, findings and methodology in the study of perception and the related area of sensory physiology. Emphasis is placed on visual and auditory perception. Topics include psychophysics, sensory coding, adaptation, attention, sensory and perceptual judgments, the perception of space, motion, and color. Application of perception to interpersonal relationships. Prerequisite: PSY 101.

PSY PRINCIPLES OF RESIDENTIAL
420 & 421 ON BEHAVIOR OF ADULTS I & II
See SOC 420/421 on page 84.

PSY ABNORMAL PSYCHOLOGY
433 Every Fall/3 hours
Designed to help the student to understand mental illness and to prevent mental illness by a better awareness of the emotional, functional, and physiological factors influencing mental health. MAT 120 is a prerequisite.

PSY FUNDAMENTALS OF COUNSELING
443 & GUIDANCE
Every semester and every Summer/3 hours
Designed for teachers, ministers, business persons, industrial workers, or workers in sociology. Emphasis is placed on the proper use of psychology as a tool for guidance by persons in various occupations. Prerequisite: PSY 101.

PSY PSYCHOLOGICAL TESTING
474 An introduction to the nature and use of psychological tests for the evaluation of intelligence, aptitudes, achievement, personality interests, and opinions. Consideration will be given to the validity and reliability of psychological tests and their legitimate uses and abuses. Demonstration of the administration and scoring of the major psychological tests.

PSY INTERNSHIP IN PSYCHOLOGY
497 Every semester/4 hours
The student is placed with an agency or organization in the community to gain practical insights and experience in complementing their classroom learning. Every effort is made to place the student in a setting corresponding to their interests or career goals.

PSY INDEPENDENT STUDY
499 On demand/1-4 hours
See page 51.

TUT VOLUNTEER TUTORING
400 Every semester/No credit
For course description see TUT 300/400 on page 112.

SOC SOCIETY

SOC INTRODUCTION TO SOCIETY
101 Every semester/3 hours
An introduction to the concepts, theories, and methods used by sociologists to describe, explain, and understand human behavior in groups. Emphasis is placed on how sociology is used in everyday living and in social service careers.

SOC SOCIAL PROBLEMS
223 Every Spring/3 hours
A survey of the various issues and problems faced by contemporary American society including poverty, war, inequality, crime, energy and food shortages, sexual behavior, and drug and alcohol abuse. A cross-cultural perspective will be employed to further an understanding of the history, nature, and possible solutions of these social problems. Prerequisite: SOCI 101.

SOC SOCIAL PSYCHOLOGY
303 Every Fall/3 hours
A study of social and group factors affecting individual behavior. Attention is given to the development of attitudes, leadership roles, group thinking, sources of conflict, effects of competition and cooperation, analysis and evaluation of propaganda techniques, and the influence of mass communication on social awareness and control. Prerequisite: PSY 101 or SOC 101.

SOC CULTURAL ANTHROPOLOGY
333 Every Spring/3 hours
A study of social cultures which have developed in human society. Attention is given to primitive peoples in comparison with our own and other cultures. The origin and development of the cultures, their technologies, economics, social organizations, and beliefs are surveyed. Prerequisite: SOCI 101.

SOC HISTORY OF SOCIAL THOUGHT
325 Every Fall/3 hours
A study of social thought from ancient to modern times, with an emphasis on 20th century social thought. This course investigates the background of modern sociology and its influence on human behavior. Prerequisite: SOCI 101.

SOC MARRIAGE AND THE FAMILY
333 Every Fall/3 hours
A sociological analysis of the family, designed to contribute to an understanding of the family as an institution, a structure, and functions and to present material of a practical nature which will help young people who are seeking guidance in the choice of a partner and in the adjustments necessary to a successful marriage and family life. Prerequisite: SOCI 101 or Junior standing.

SOC JUVENILE DELINQUENCY
343 Spring, 1990, and alternate years/3-4 hours
A study of the extent and nature of juvenile delinquency: the social and personal factors related to the development of delinquent habits and the techniques for dealing with the delinquent and for redirecting youth behavior into socially desirable patterns. Prerequisite: SOCI 223 or Junior standing.

SOC URBAN SOCIOLOGY
353 Fall, 1990, and alternate years/3 hours
An analysis of the evolution of the city, together with the specific problems experienced in the process. An examination of the role of the church in this process will be considered. Urban renewal and projected plans for the city of the future will also be of concern. Prerequisite: SOCI 101.

SOC INTRODUCTION TO PROBABILITY
362 & STATISTICS
Also JUS 371.
See PSY 363 on page 82.

SOC SOCIAL RESEARCH
377 Every Fall/3 hours
Also JUS 371.
Investigation of an involvement in techniques of social research, including hypothesis construction and testing, research design, data collection and analysis and data presentation of research results. Prerequisite: SOC 101.

SOC DRUG ABUSE SEMINAR
381 Every Spring/3 hours
Also HLT 381.
Information presented concerned the problems of drug abuse and approaches toward solutions of those problems. Pharmacology and epidemiology of drugs; psychological, social, and cultural implications; and principles of program planning. Prerequisite: SOC 223.

SOC HUMAN ECOSYSTEM
384 See BIO 384 on page 102.
**SOCIOLOGY OF AGING**  
393  
Spring, 1993, and alternate years/3 hours  
This class will explore the physical, psychological, social, economic, environmental, religious and pro-grammatic aspects of aging. It is intended to provide the student with a broad background regarding the issues surrounding the topic of aging. Prerequisite: SOC 101.

**SOC DEPARTMENTAL TUTORING**  
396  
Every semester/2 hours  
For course description see ACC 396 on page 112.

**SOC AMERICAN MINORITY PEOPLES**  
423  
Fall, 1990, and alternate years/3 hours  
A study of the various minority groups in the United States and their sociological significance in our national group and culture. The history and present status of American immigration policy are also considered.

**SOC SOCIAL WORK**  
431  
Spring, 1993, and alternate years/3 hours  
An overview of the training, tasks, and opportunities in the profession of social work. The student will be introduced to the skills, knowledge base, and functional role of the social worker. Exposure to various settings of social work practice will be provided. Prerequisite: SOC 101.

**SOC PRINCIPLES OF RESIDENTIAL TREATMENT OF ADOLESCENTS I & II**  
420/421  
On demand/6 hours  
And SOC 121. A specialized course dealing with the need for, the types of clients served in, and methods of treatment of adolescents in residential settings. An experiential component of 45-60 hours per semester is an integral part of the course and is conducted at the Arizona Baptist Children's Services facility immediately adjacent to the University.

**SOC INTERNSHIP IN SOCIOLOGY**  
497  
Every semester/4 hours  
The student is placed with an agency or organization in the community to gain practical insights and experience to complement their classroom learning. Every effort is made to place the student in a setting corresponding to their interests or career goals.

**SOC SPECIAL TOPICS**  
498  
On demand/1 hour  
Topics of interest to sociologists but not covered in depth in other courses will be considered. The content (topic) will change each time the course is offered so it may be repeated for credit. Examples of topics might include: Women in America, Suicide, Third World Issues, Social Movements, Collective Behavior, Social Stratification, Sociology of Religion, Sociology of Health & Illness, or Sociology of Mental Illness. Prerequisite: SOC 101, SOC 102, or instructor's approval.

**SOC INDEPENDENT STUDY**  
499  
On demand/1-4 hours  
See page 51.

**TUT VOLUNTEER TUTORING**  
300/400  
Every semester/2 hours  
For course description see TUT 300/400 on page 112.

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**DEPARTMENT DESCRIPTION**

Courses in the humanities aid students by acquainting them with the highest expression of man's feelings and thoughts. Active contact with mankind's ideas and accomplishments provides the enrichment of mind necessary to living a full and satisfactory life. This contact also supplies knowledge vitally needed for survival in a complex and rapidly changing world. For this reason, the department emphasizes direct experience with art, literature, writing, and language.

Courses in art are designed to involve the student in active participation and to develop artistic skills in critical appreciation, historical understanding, the forming of art objects, and the teaching of art. All lower division courses are open to any student, with no prerequisite.

Entrance into the Studio Art major will require taking the courses Drawing I, Two- and Three-Dimensional Design and 3 hours in a selected concentration area. The student must have a "B" grade point average in the prerequisite courses listed. A faculty review (full-time art faculty) will determine whether the student is suited to this type of educational pursuit.

The communications major offers a unique interdisciplinary field of study for students. Course work comes from the areas of Art, English, Journalism, and Speech. Although these courses are intended to prepare the student for professional work in the field of broadcasting, writing, public relations and other related fields, students should be advised that some employment opportunities will require a master's
First-year language courses should be taken back-to-back in the Fall and Spring semesters. A minimum of two years should be considered if a person is to be considered language functional.

In evaluating high school work in a language, the individual instructor determines the level at which students should begin their college languages. A foreign-born native speaker of a language other than English may not take a conversation class nor a lower division class of grammar, literature or civilization of that language or society after completing an upper division class in that language without the instructor's approval.

Fourteen hours of one language (or equivalent) are recommended for B.A. degree programs. Those planning to teach foreign language at the secondary level must have 20 semester hours (6 hours must be the Language Methods class and the Linguistics Conversation class). Additional information may be secured from faculty personnel.

Students wishing to expand the Spanish minor to a major may complete such a major by transferring approved upper division courses from a regionally accredited college or university and/or by taking one independent study class in addition to what is already offered. A major must be approved, in advance, by the instructor, the department chairperson, and Vice President for Academic Affairs.

### DEGREE REQUIREMENTS — ART

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<th>REQUIREMENTS FOR A GENERAL MAJOR IN ART* (B.A. DEGREE)</th>
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### REQUIREMENTS FOR A MAJOR IN STUDIO ART (B.A. DEGREE)

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<tr>
<td>AR 303, 323, 343, 353, 363, 373, 383, or DGN 333</td>
<td>3 hours</td>
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<tr>
<td>AR 391 Art Seminar</td>
<td>3 hours</td>
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<td>AR 431 Portfolio Competence</td>
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<td>AR 481 Studio Problems &amp; Techniques</td>
<td>9 hours</td>
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<tr>
<td>DGN 213 Basic Studio Techniques</td>
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<td>DGN 245, 253 Two- &amp; Three-Dimensional Design</td>
<td>6 hours</td>
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<tr>
<td>DGN 481 Design Problems &amp; Techniques</td>
<td>9 hours</td>
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### REQUIREMENTS FOR A MAJOR IN ART EDUCATION** (B.A. DEGREE)

<table>
<thead>
<tr>
<th>REQUIREMENTS FOR A MAJOR IN ART EDUCATION** (B.A. DEGREE)</th>
<th>6 hours</th>
<th>3 hours</th>
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<tr>
<td>AE 303 Art in the Elementary School</td>
<td>3 hours</td>
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<tr>
<td>AE 423 Art in the High School</td>
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<td>AH 333, 343, 353, 363 Art History</td>
<td>3 hours</td>
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<td>AR 203 Drawing I</td>
<td>3 hours</td>
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<td>AR 225, 233, 235, 263, 273, 283, or DGN 233</td>
<td>3 hours</td>
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<td>DGN 245, 253 Two- &amp; Three-Dimensional Design</td>
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<td>Upper Division Elective</td>
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<td>TOTAL</td>
<td>24 hours</td>
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Strongly recommended are SPC 378 Oral Interpretation of Literature and one of the journalism courses. Students who plan to teach must meet all the requirements of the College of Education for state certification.

**DEGREE REQUIREMENTS — MODERN LANGUAGE**

**REQUIREMENTS FOR A MINOR IN FRENCH**
- FR 114, 124 Elementary French I, II 8 hours
- FR 213, 223 Intermediate French I, II 6 hours
- FR 301 French Composition 3 hours
- FR 413 French Literature 3 hours

**TOTAL** 20 hours

**REQUIREMENTS FOR A MINOR IN GERMAN**
- GER 114, 124 Elementary German I, II 8 hours
- GER 213, 223 Intermediate German I, II 6 hours
- GER 301 German Composition 3 hours
- GER 413 Survey of German Literature I 3 hours

**TOTAL** 20 hours

**REQUIREMENTS FOR A MINOR IN SPANISH**
- SPA 114, 124 Elementary Spanish I, II 8 hours
- SPA 213, 223 Intermediate Spanish I, II 6 hours
- SPA 343 Spanish Composition 3 hours
- SPA 413 Spanish Literature 3 hours

**TOTAL** 20 hours

**ART EDUCATION**

**ART IN THE ELEMENTARY SCHOOL**

**ART MEDIA AND METHODS FOR THE ELEMENTARY TEACHER**

**ART IN THE HIGH SCHOOL**

**ART HISTORY**

**ART STUDIO**

**FINE ARTS**

**HUMANITIES**
AR SCULPTURE I 27 Fall, on demand/3 hours An introduction to the sculpting processes of carving, modeling, and fabricating, emphasizing volume, movement, and space.

AR PAINTING I 203 Every semester/3 hours Introduction, the preparation and use of materials and methods with an emphasis on color theory and effects of color and harmony.

AR DRAWING II 303 Every Spring/3 hours Exploration of recording ideas and concepts through the use of a variety of materials such as pencil and chalks as well as mixed media. Prerequisite: AR 203 or instructor's approval.

AR PRINTMAKING II 323 Full, on demand/3 hours In-depth exploration of printmaking process with emphasis on developing awareness in contemporary application. Prerequisite: AR 223.

AR ART WORKSHOP II 332 On demand/3 hours Designed to offer the student the opportunity to experience the use of a special process or medium in a workshop setting. May be repeated for credit under different media titles. Prerequisite: AR 223.

AR PHOTOGRAPHY II 343 Every semester/3 hours A course designed to expand the student's knowledge and use of materials and techniques available as tools for creative expression in black and white photography. Prerequisite: AR 241.

AR JEWELRY II 351 Every Spring/3 hours A continuation of the techniques of jewelry making with advanced problems in fabrication and casting. Emphasis will be on creative design and developing an awareness of contemporary trends. Prerequisite: AR 251.

AR CERAMICS II 363 Every semester/3 hours Continued studio problems in the process of forming clay. Emphasis is also placed on glaze application and surface decoration. Prerequisite: AR 263.

AR SCULPTURE II 373 Spring, on demand/3 hours Continued exploration of sculpting processes of casting, welding, and plastics. Prerequisite: AR 273.

AR PAINTING II 383 On demand/3 hours Techniques of underpainting, glazing, impasto, direct oil washes, and emphasis on color theory and experimentation. Prerequisite: AR 283 or instructor's approval.

AR ART SEMINAR I 393 Every Spring/1 hour A discussion-oriented class introducing the concept of the professional artist and his/her dealings with galleries and museums, graduate schools, resumes and portfolio requirements. In addition to classroom discussions, the class will be supplemented through field trips to various art galleries, museums, artist studios, and graduate schools.

DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

LIFE DRAWING 403 Every semester/2 hours Development of skill in drawing the basic form, construction, and gesture, from the human figure, emphasizing anatomical structure. Prerequisite: AR 303 and DGN 243 or instructor's approval.

PORTFOLIO COMPETENCE 411 Every semester/1 hour The student will prepare and present a showing of upper division art in areas of concentration along with a side portfolio and resume. Prerequisite: Instructor's approval.

STUDIO PROBLEMS AND TECHNIQUES 481 By arrangement 4 hours Advanced studio problems in the medium of the student's choice. May be repeated. Prerequisite: Instructor's approval.

TUT VOLUNTEER TUTORING 300/400 Every semester/No credit 400 For course description see TUT 300/400 on page 112. Can be by arrangement.

CHINESE

CHI ELEMENTARY CHINESE I 114 Every Fall/4 hours A study stressing conversation using a text, practice tapes, and cultural information to develop basic understanding, speaking, reading and some writing.

CHI ELEMENTARY CHINESE II 124 Every Spring/4 hours Continuation of CHI 114. Prerequisite: CHI 114 or equivalent.

CHI INTERMEDIATE CHINESE I 213 Every Fall/4 hours Increased emphasis on reading, practice to increase conversational fluency. Prerequisite: CHI 124 or equivalent.

CHI INTERMEDIATE CHINESE II 223 Every Spring/4 hours Continuation of CHI 213. Prerequisite: CHI 213 or equivalent.

DESIGN STUDIO 213 Every Fall/4 hours An introduction to studio techniques and how they relate to the various fields of art. Emphasis will be on construction of specific projects relating to other department courses and on the operation of shop equipment.

DGN BASIC STUDIO TECHNIQUES 223 Every Fall/4 hours Basic guidelines and principles for developing successful advertising designs will be explored through studio work and lecture.

DGN GRAPHIC DESIGN I 233 Every Fall/4 hours An introduction to the basic visual organization of advertising elements and instruction in the use of equipment and tools of the professional designer. Prerequisite: DGN 243 or instructor's approval.

DGN TWO-DIMENSIONAL DESIGN 243 Every Fall/1 hour Basic principles of the structural aspects of graphic arts are explored in laboratory and lecture. Also explores the communicative value of visual images.

DGN ILLUSTRATION I 273 Every Spring/3 hours Basic principles and styles of drawing and their commercial application are explored through studio work and lecture. Prerequisite: AR 251.

DGN ILLUSTRATION II 300 Every semester/4 hours Further study of visual communications through the use of verbal and visual elements. Emphasis will be on creative problem solving and concept development. Includes preparation of art work for reproduction. Prerequisite: DGN 273.

DGN DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

DGN DESIGN PROBLEMS AND TECHNIQUES 411 By arrangement 4 hours Advanced design problems in the medium of the student's choice. May be repeated. Prerequisite: Instructor's approval.

TUT VOLUNTEER TUTORING 300/400 Every semester/No credit 400 For course description see TUT 300/400 on page 112.

AMERICAN LITERATURE

EAL AMERICAN LITERATURE I 313 Every Fall/4 hours A study of outstanding authors, their works and the literary movements from the Colonial Age to Romanticism (1890). Prerequisite: Junior standing.

EAL AMERICAN LITERATURE II 323 Every Spring/4 hours A study of Local Color, Realism and Naturalism, especially in prose and poetry from 1850 to World War I. Prerequisite: Junior standing.

EAL DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

EAL PRACTICUM 399 On demand/1-4 hours See page 51.

EAL AMERICAN LITERATURE III 463 Every Fall/3 hours A study of the major works of American literature since World War I. Prerequisite: EAL 223 or Junior standing.

INDEPENDENT STUDY 499 On demand/1-4 hours See page 51.

TUT VOLUNTEER TUTORING 300/400 Every semester/No credit 400 For course description see TUT 300/400 on page 112.

ENGLISH LITERATURE

EEL ENGLISH LITERATURE I 213 Every Fall/4 hours A study of selected classical backgrounds of English literature, the Old English period and the English Renaissance. Prerequisites: EEW 101, EEW 102.

EEL ENGLISH LITERATURE II 223 Every Spring/4 hours Continuation of EEL 213, covering the period from the Restoration through the Romantic period. Prerequisites: EEL 213 or Junior standing.

EEL ENGLISH LITERATURE III 363 Every Spring/3 hours A study of the major Victorian poetry and prose and selected works from the modern period. Prerequisite: EEL 223 or Junior standing.

EMA DEPARTMENTAL TUTORING 396 Every semester/2 hours For course description see ACC 396 on page 112.

EMA SHAKESPEARE 423 Spring, 1990, and alternate years/3 hours A study of the major Shakespearean comedies and tragedies and an exploration of Shakespeare's development as a dramatist. Prerequisite: EEL 213 or Junior standing.

TUT VOLUNTEER TUTORING 300/400 Every semester/No credit 400 For course description see TUT 300/400 on page 112.

ENGLISH WRITING/GRAMMAR

EEW BASIC ENGLISH 100 Every semester/3 hours A course for students whose ACT scores or performance on the Wisconsin Efficacy Exam indicates their need for a review of basic English.

EEW GRAMMAR AND COMPOSITION 101 Every semester and every Summer/1 hour A course in the writing of clear and effective prose, emphasizing fluency, structure, and mechanics. Prerequisites: EEW 101.

EEW COMPOSITION AND LITERATURE 102 Every semester and every Summer/1 hour A course in the writing of clear and effective prose, emphasizing fluency, structure, and mechanics. Prerequisite: EEW 101.

HON READINGS FOR HONORS 104 Fall/3 hours A cross-disciplinary study of major issues in contemporary culture. Students will be expected to participate in discussions and to write honors level essays based on readings and lectures. Prerequisite: Admission to the Honors Program.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>HON 105</td>
<td>HONORS COMPOSITION AND LITERATURE</td>
<td>10</td>
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<td></td>
<td><em>Every Fall/Spring</em> 1/3 hours</td>
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<td></td>
<td>A course designed for students who have demonstrated good writing skills. Students will use a variety of expository methods in analyzing literature. A research paper is required. This course fulfills all freshman English requirements. Prerequisite: HON 104.</td>
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<tr>
<td>EEW 313</td>
<td>EEW AND TECHNICAL WRITING</td>
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<td></td>
<td><em>Every semester/3 hours</em></td>
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<td></td>
<td>A course designed to present the best practices in writing business communications and technical reports.</td>
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<td>EEW 314</td>
<td>EEW WRITING FOR PUBLICATION</td>
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<td></td>
<td><em>Every Fall/Spring</em> 1/3 hours</td>
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<td></td>
<td>A course designed to persons who want to translate the urge to write into a finished manuscript. The emphasis will be on non-fiction writing. May be repeated for a maximum of 6 hours.</td>
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<td>EEW 315</td>
<td>EEW ADVANCED COMPOSITION</td>
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<td></td>
<td><em>Every Fall/Spring</em> 1/3 hours</td>
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<td></td>
<td>A course for students interested in writing who want to develop their skills in critical and non-fiction writing.</td>
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<td>EEW 316</td>
<td>EEW DEPARTMENTAL TUTORING</td>
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<td></td>
<td><em>Every semester</em> 1 hour</td>
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<tr>
<td></td>
<td>A course for students interested in writing who want to develop their skills in critical and non-fiction writing.</td>
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<td>EEW 317</td>
<td>EEW WRITING FOR PUBLICATION</td>
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<td><em>Every semester</em> 1 hour</td>
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<td></td>
<td>A course designed to persons who wish to translate the urge to write into a finished manuscript. The emphasis will be on non-fiction writing. May be repeated for a maximum of 6 hours.</td>
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<td>EEW 318</td>
<td>EEW ESSAY WRITING</td>
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<td><em>Every semester</em> 1 hour</td>
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<td></td>
<td>A course designed to students who have shown exceptional ability in writing and who are interested in independent research of creative writing. May be repeated for a maximum of 6 hours.</td>
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<td>EEW 319</td>
<td>EEW SEMINAR IN WRITING</td>
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<td><em>Fall, 1998, and alternate years</em></td>
<td>1 hour</td>
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<td></td>
<td>A course planned for students who have shown exceptional ability in writing and who are interested in independent research of creative writing. May be repeated for a maximum of 6 hours.</td>
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<td>EEW 320</td>
<td>EEW INDIVIDUAL STUDY</td>
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<td><em>On demand/1-4 hours</em></td>
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<td>A course that allows students to study their own writing.</td>
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<td>ELG 321</td>
<td>ELG ADVANCED GRAMMAR</td>
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<td></td>
<td><em>Every Spring/Spring</em> 1/3 hours</td>
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<td></td>
<td>A study of syntax, form, and mechanics of English grammar in the light of its historical background.</td>
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<td>TUT 322</td>
<td>TUT VOLUNTEER TUTORING</td>
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<td></td>
<td><em>Every semester/No credits</em></td>
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<td></td>
<td>For course description see TUT 300/400 on page 112.</td>
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<tr>
<td></td>
<td><em>Every semester</em> 1 hour</td>
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**FRENCH**

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<td>FR ELEMENTARY FRENCH I</td>
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<td></td>
<td><em>Every Fall/Spring</em> 1/3 hours</td>
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<td>A study stressing conversation and the fundamentals of grammar, pronunciation, and composition, together with graded reading.</td>
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<td>FR 124</td>
<td>FR ELEMENTARY FRENCH II</td>
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<td><em>Every Spring</em> 1 hour</td>
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<td>Continuation of FR 114. Prerequisite: FR 114.</td>
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<tr>
<td>FR 125</td>
<td>FR INTERMEDIATE FRENCH I</td>
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<td></td>
<td><em>Every Fall/Spring</em> 1/3 hours</td>
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<td>Review, composition, conversation, and extensive reading. Prerequisite: FR 124.</td>
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<td>FR 223</td>
<td>FR INTERMEDIATE FRENCH II</td>
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<td><em>Every Fall</em> 1 hour</td>
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<td></td>
<td>Continuation of FR 213. Prerequisite: FR 213.</td>
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<tr>
<td>FR 230</td>
<td>FR FRENCH CONVERSATION</td>
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<td></td>
<td><em>Every Fall</em> 1 hour</td>
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<td>A course designed to teach the student to speak with ease and fluency stressing pronunciation, proper intonation and usage and utilizing the student with culture and customs.</td>
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<tr>
<td>FR 303</td>
<td>FR FRENCH COMPOSITION</td>
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<td></td>
<td><em>Every Spring</em> 1/3 hours</td>
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<td>A course designed to give the student practice in writing in French on selected topics and current issues. Prerequisite: FR 223 or FR 300.</td>
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<td>FR 302</td>
<td>MODERN FRENCH LITERATURE</td>
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<td></td>
<td><em>Every Fall</em> 1 hour</td>
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<td>A study of two opposing factions of literary development in the late 19th and 20th centuries. The preservation of traditional Christian values in untended years versus existentialism; their effect on modern French education and lifestyle.</td>
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<tr>
<td>FR 306</td>
<td>DEPARTMENTAL TUTORING</td>
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<td></td>
<td><em>Every semester</em> 3 hours</td>
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<td>For course description see ACC 396 on page 112.</td>
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<tr>
<td>FR 307</td>
<td>SURVEY OF FRENCH LITERATURE</td>
<td>3</td>
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<td></td>
<td><em>Every Spring</em> 1/3 hours</td>
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<td>Designed to expose the student to French literature civilization and culture; and to advance the student's reading comprehension.</td>
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<td>FR 499</td>
<td>FR INDEPENDENT STUDY</td>
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<td></td>
<td><em>On demand/1-4 hours</em></td>
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<td></td>
<td>See page 51.</td>
<td></td>
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<tr>
<td>TUT 308</td>
<td>TUT VOLUNTEER TUTORING</td>
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<tr>
<td></td>
<td><em>Every semester</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>For course description see TUT 300/400 on page 112.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GERMAN**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 114</td>
<td>GER ELEMENTARY GERMAN I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every Fall/Spring</em> 1/3 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A program of study using a text-workbook, practice tapes, and classroom experience to develop the fundamentals of understanding, speaking, reading, and writing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 124</td>
<td>GER ELEMENTARY GERMAN II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every Spring/Spring</em> 1/3 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Continuation of GER 114. Prerequisite: GER 114 or equivalent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 223</td>
<td>GER INTERMEDIATE GERMAN I</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every Spring</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reading of appropriate German texts, study-review of grammar, and practice in conversation to increase fluency in the basic skills. Prerequisite: GER 124.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 225</td>
<td>GER INTERMEDIATE GERMAN II</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every Spring</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Continuation of GER 223. Prerequisite: GER 223 or instructor's approval.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 300</td>
<td>GER GERMAN CONVERSATION</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every Fall</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contemporary topics and cultural comparisons are the basis of the conversation class. The class strengthens the student's command of spoken German. Prerequisite: Instructor's approval.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 304</td>
<td>GER GERMAN COMPOSITION</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every Spring</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A course designed to give the student practice in writing in German about current issues and selected topics.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**JOURNALISM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRN 221</td>
<td>JRN SMALL NEWSPAPER I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every semester</em> 1 hour</td>
<td></td>
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<tr>
<td></td>
<td>A course that presents the principles of journalism as they apply to the small newspaper. Laboratory experience provided by the university paper. (3 hours maximum) Prerequisite: Instructor's approval.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JRN 230</td>
<td>JRN NEWSWRITING AND REPORTING</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every semester</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A course designed for students wishing to learn the basic skills of news writing and reporting, and to learn the basics of editing and layout. Prerequisite: JRN 230 or equivalent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JRN 300</td>
<td>JRN ADVANCED NEWS WRITING</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Every semester</em> 1 hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A course designed for students who have completed JRN 230 or its equivalent. Students will have the opportunity to expand their news writing and reporting skills and to learn the basics of editing and layout. Prerequisite: JRN 230 or equivalent.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SPANISH

SPANISH COMPOSITION
344
Every Spring/3 hours
A course designed to give the student practice in writing in Spanish about Spanish literature and current issues.

DEPARTMENTAL TUTORING
396
Every semester/2 hours
For course description see ACC 396 on page 112.

SPANISH LITERATURE
413
Every Fall/3 hours
Designed to expand the students’ knowledge of Spanish literature and civilization, and to advance reading comprehension. Emphasis on oral self-expression.

PENINSULAR AND
463
HISPANIC CIVILIZATIONS
Every Spring/3 hours
A chronological study of colonization and civilization of the peninsula and the new world, with emphasis on Mexico.

ADVANCED SPANISH GRAMMAR
453
Every Fall/3 hours
An intensive grammar course with strong emphasis on correct usage and the nuances related to grammar and translation.

INDEPENDENT STUDY
499
On demand/1-4 hours
See page 51.

VOLUNTEER TUTORING
300/
Every semester/50 credits
400
For course descriptions see TUT 100/400 on page 112.

DEPARTMENT DESCRIPTION
The Department of Mathematics provides courses for students who major in mathematics or mathematics for secondary teachers or who choose engineering. It prepares students for graduate study, continuation for an engineering degree, or employment in business, industry, government, or teaching. The department also provides a broad, liberal-arts introduction to mathematics for students having other majors.

The facilities for mathematics include a Computer Center and, in addition, the Dynamical Systems Laboratory where students use computers to study fractals, chaos, and iterations.

The 3/2 engineering program, developed in conjunction with Arizona State University, allows the student to obtain two B.S. degrees in five years: a degree in mathematics from Grand Canyon University and a degree in engineering from ASU. The student spends the first three years at Grand Canyon University completing general education, mathematics, and engineering core courses. The final two years are spent at ASU completing specialized courses in aerospace engineering, chemical engineering, civil engineering, construction engineering, electrical engineering, engineering science, industrial engineering, materials engineering, mechanical engineering, nuclear sciences, or systems engineering.

This is a flexible program. At the end of the third year the student may elect to complete the final two years at ASU or one additional year at Grand Canyon University for a major in mathematics.
**DEGREE REQUIREMENTS — MATHEMATICS**

**REQUIREMENTS FOR A MAJOR IN MATHEMATICS (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 203</td>
<td>Beginning Structured Programming</td>
<td>3</td>
</tr>
<tr>
<td>MAT 270, 271, 272 Calculus I, II, III</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>MAT 275 Linear Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 333, 334 Advanced Calculus I, II</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MAT 363 Probability and Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 373 Differential Equations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 423 Abstract Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 115, 116 University Physics I, II</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Upper Division Electives (not MAT 404)</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 53 hours

*Students interested in teaching should take 24 hours for a minor.*

**REQUIREMENTS FOR A MAJOR IN MATHEMATICS FOR SECONDARY TEACHERS (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 213 College Geometry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 270, 271, 272 Calculus I, II, III</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>MAT 275 Linear Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 333 Advanced Calculus I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 363 Probability and Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 373 Differential Equations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 404 Mathematics in the Secondary Schools</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 423 Abstract Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Two of the following:</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>CS 203 Beginning Structured Programming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 213 Intermediate Structured Programming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 115 University Physics I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 116 University Physics II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certification in Secondary Education</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Minor in subject of choice</td>
<td>18-24</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 99-107 hours

Refer to College of Education for certification requirements.

**REQUIREMENTS FOR A MAJOR IN MATHEMATICS FOR ENGINEERS (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 270, 271, 272 Calculus I, II, III</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>MAT 275 Linear Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 363 Probability and Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 373 Differential Equations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 434 Complex Analysis</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 444 Numerical Methods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT 455 Partial Differential Equations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EGN 105 Introduction to Languages of Engineering</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EGN 106 Introduction to Computer-Aided Engineering</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EGN 211 Statics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EGN 312 Dynamics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 115, 116 University Physics I, II</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>CHE 114, 115 General Chemistry I, II</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>CHE 424, 425 Physical Chemistry I, II</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 66 hours

**MATHEMATICS**

Students who have completed advanced or accelerated courses in mathematics in high school may apply for advanced placement with regard to certain mathematics courses.

**MAT ELEMENTARY ALGEBRA**

**095 Every Fall/3 hours**

Basic concepts of Algebra for students with inadequate preparation in mathematics. Does not satisfy the general education requirement in mathematics or apply to graduation requirements.

**MAT LIBERAL ARTS MATHEMATICS**

**113 Every Summer/1 hour**

An introduction to various mathematical concepts with emphasis on the methods and processes of mathematics. Topics from sets, logic, functions, and number systems are included. Recommended for majors in elementary education.

**MAT INTERMEDIATE ALGEBRA**

**120 Every Summer/3 hours**

Topics from basic algebra: linear equations, polynomials, quadratic equations, systems of equations, exponents, roots, and radicals. Prerequisites: Placement counseling and MAT 095 or one year of high school algebra.

**MAT COLLEGE ALGEBRA AND**

**121 TRIGONOMETRY**

**Every Summer/4 hours**

A precalculus course on topics in algebraic properties of elementary functions, and trigonometry. Prerequisites: Placement counseling and MAT 120 or two years of high school algebra.

**MAT BUSINESS CALCULUS**

**210 Every Spring/3 hours**

Differential and integral calculus of elementary functions. Focus is on applications. Prerequisite: MAT 121 or instructor’s approval.

**MAT COLLEGE GEOMETRY**

**213 Spring, 1993, and alternate years/3 hours**

A course in the techniques of construction and the procedure of proofs of common geometric figures, particularly adapted to the needs of future teachers of high school mathematics. A brief introduction to non-Euclidean geometry is also included.

**MAT ANALYTIC GEOMETRY AND**

**270 CALCULUS I**

**Every Fall/4 hours**

A study of concepts of limits, differentiation and integration of algebraic and elementary functions. Prerequisites: MAT 120, 121 or the high school equivalent.

**MAT ANALYTIC GEOMETRY AND**

**271 CALCULUS II**

**Every Spring/4 hours**

A continuation of MAT 270, covering the techniques of integration, infinite series, and solid analytic geometry.

**MAT ANALYTIC GEOMETRY AND**

**272 CALCULUS III**

**Every Fall/4 hours**

A study of partial differentiation and multiple integration with an introduction to vector analysis and differential equations.

**MAT LINEAR ALGEBRA**

**275 Every Fall (1001) 3 hours**

An introductory study of finite dimensional vector spaces, linear transformations, and matrices associated with them. Prerequisite: MAT 271 or instructor’s approval.

**MAT DISCRETE MATHEMATICS**

**315 Every Fall/3 hours**

A blend of discrete and continuous mathematics to facilitate the controlled manipulation of formulas by using a collection of techniques for solving problems. Topics include recurrences, elementary number theory, generating functions, discrete probability, and asymptotic methods. Prerequisite: MAT 271.

**MAT ADVANCED CALCULUS I**

**333 Every Fall/3 hours**

Sets, functions, the real numbers, topological ideas, sequences, limits, continuity, and differentiation. Prerequisite: MAT 272.

**MAT ADVANCED CALCULUS II**

**334 Every Spring/3 hours**

Integration, series, uniform convergence and selected additional topics in analysis. Prerequisite: MAT 333.

**MAT TOPOLOGY**

**343 On demand/3 hours**

A first course in general topology, with emphasis on the topology of the real numbers. Topics include topology space, continuity, connectedness, compactness, separation axioms, and metric spaces. Prerequisite: MAT 271.

**MAT PROBABILITY AND STATISTICS FOR**

**363 MATHEMATICS AND SCIENCE**

**Every Spring/3 hours**

A study of elementary theories of probability, distribution, and testing of statistical hypotheses. Practical experience is provided in the applications of statistical methods. Prerequisite: MAT 271 or instructor’s approval.

**MAT DIFFERENTIAL EQUATIONS**

**373 Every Spring/3 hours**

A study of the methods of solution of ordinary differential equations and their application to geometry, mechanics, and physics. Prerequisite: MAT 272.

**MAT DEPARTMENTAL TUTORING**

**396 Every semester/2 hours**

For course description see ACC 396 on page 112.
MATHEMATICS IN THE SECONDARY
404 SCHOOL  Every Fall/3 hours
Topics in geometry, number theory, algebra, and analysis. Emphasis is on the development of a problem-solving process and unifying principles. Teaching strategies, examination of secondary school curricular materials, and classroom experience will be included. Prerequisite: MAT 270, 271.

MAT ABSTRACT ALGEBRA 421 Fall, 1989, and alternate years/3 hours
An introduction to algebraic structures with particular emphasis on group theory. Prerequisite: MAT 222 or instructor’s approval.

MAT COMPLEX ANALYSIS 434 Every Spring/3 hours
An introduction to the calculus and geometry of functions of a complex variable. Topics include complex numbers, analytic functions, integration, Taylor and Laurent series, the residue calculus, and selected additional topics. Prerequisite: MAT 272.

MAT NUMERICAL METHODS 444 Every Spring/3 hours
An introduction to selected topics in numerical analysis chosen from among the following: numerical linear algebra, interpolation, numerical solution of ordinary and partial differential equations, quadrature, solution of nonlinear equations, and optimization. Choice of topics varies. Prerequisite: CS 203, MAT 271, and instructor’s approval.

MAT PARTIAL DIFFERENTIAL EQUATIONS 455 Every Fall/3 hours
An introduction to the partial differential equations of applied mathematics: Laplace’s, wave, and diffusion equations and their solution by characteristics, separation of variables, integral transforms, and selected numerical methods. Prerequisite: MAT 223.

MAT ADVANCED TOPICS IN MATHEMATICS 473 On demand/1 hours
Upper Division topics in mathematics will be offered according to student needs. May be repeated for credit. Prerequisite: Junior or Senior standing and instructor’s approval.

MAT ADVANCED LINEAR ALGEBRA 475 On demand/3 hours
A more advanced treatment of the topics of MAT 275 including vector spaces, theory of linear transformation, similarity, canonical forms, matrix decompositions, quadratic forms, and selected additional topics. Prerequisite: MAT 275.

MAT RESEARCH IN MATHEMATICS 490 Every semester/2-3 hours
A detailed study of one or more problems in mathematics. May be repeated for up to 9 hours of credit, 3 of which may count toward electives in mathematics. Prerequisites: Consultation with and instructor’s approval.

MAT INDEPENDENT STUDY 499 Every semester/1-4 hours  See page 51.

TUT VOLUNTEER TUTORING 300 Every semester/No credit
Free course description see TUT 300/400 on page 112.

ENGINEERING

EGN INTRODUCTION TO LANGUAGES OF 105 ENGINEERING  Every Fall/3 hours
Computer programming using Fortran-77, fixed/variable drawing, visualization and computer graphics.

EGN INTRODUCTION TO COMPUTER-AIDED 106 ENGINEERING  Every Spring/3 hours
An introduction to computer-aided analysis and design using appropriate software packages. Modeling, optimization, and graphic documentation will also be examined. Prerequisite: EGN 105.

EGN ENGINEERING MECHANICS I: STATICS 211 Every Fall starting 1989/3 hours
Statics involves the study of forced systems, resultsants, equilibrium, distributed forces, area moments, internal stresses and friction. Prerequisite: MAT 222, MAT 223, PHY 116.

EGN ENGINEERING MECHANICS II: DYNAMICS 312 Spring starting 1989/3 hours
Dynamics involves the study of the kinematics of particles, translating and rotating coordinate systems, rigid body kinematics, and energy/momentum principles. Prerequisite: EGN 211.

DEPARTMENT DESCRIPTION

The Department of Natural Sciences provides courses for students who specialize in biology, chemistry, premedicne and other health sciences, and science education. It prepares students for graduate study, medical or other professional training, employment in business, industry, government, or teaching. The department also provides every student at Grand Canyon University a broad liberal arts introduction to the sciences. This introduction stresses the spirits, method, and concepts of science.

Through close association with the faculty, students not only acquire academic knowledge and technical skills but also learn to appreciate the social and economic contributions of science to society. The necessity of academic excellence, spiritual maturity, and social responsibility is stressed in all areas of study.

The department alerts students to career opportunities in each of its disciplines. In addition to pre-graduate or pre-professional studies, students may complete the science courses required for careers in technical fields such as medical technology, pharmacy, or physical therapy.

All departmental majors must take the Graduate Record Examination in either biology or chemistry during their senior year. Alternatively, if approved in advance by the Premedical Committee, they may take either the Medical College Admission Test, the Veterinary College Admission Test, or the Dental Admission Test.
**DEGREE REQUIREMENTS - BIOLOGY**

**PREPARATION FOR SCHOOLS OF PHYSICAL THERAPY, OCCUPATIONAL THERAPY, MEDICAL TECHNOLOGY, OPTOMETRY, AND PHARMACY**

Students who plan to apply to graduate schools in biology should take all of the required courses in biology and most or all of the recommended courses. For favorable consideration by the top graduate schools, students should take 15 or more hours of courses per semester (with the possible exception of the freshman year), maintain A and B grades, and include BIO 498: Research in Biology among their courses.

**DEGREE REQUIREMENTS FOR GRADUATE STUDY IN BIOLOGY**

Students who plan to apply to graduate schools in biology should take all of the required courses in biology and most or all of the recommended courses. For favorable consideration by the top graduate schools, students should take 15 or more hours of courses per semester (with the possible exception of the freshman year), maintain A and B grades, and include BIO 498: Research in Biology among their courses.

**REQUIREMENTS FOR A MAJOR IN BIOLOGY WITH ENVIRONMENTAL EMPHASIS (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181, 182</td>
<td>General Biology I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 114, 115</td>
<td>General Chemistry</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 104, 105</td>
<td>General Chemistry</td>
<td>8 hours</td>
</tr>
<tr>
<td>PHY 111, 112 or PHY 115, 116</td>
<td>Physics</td>
<td>8 hours</td>
</tr>
<tr>
<td>EWE 101, 102, Grammar and Composition</td>
<td>6 hours</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>60 hours</strong></td>
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</tr>
</tbody>
</table>

**REQUIREMENTS FOR A MAJOR IN BIOLOGY FOR SECONDARY TEACHERS (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181, 182</td>
<td>General Biology I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>BIO 324</td>
<td>Genetics</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 364</td>
<td>Vertebrate Physiology</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 381</td>
<td>Ecology</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 401 Senior Seminar</td>
<td>1 hour</td>
<td></td>
</tr>
<tr>
<td>Electives in Biology</td>
<td>12 hours</td>
<td></td>
</tr>
<tr>
<td>CHE 114, 115</td>
<td>General Chemistry</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 324, 325</td>
<td>Organic Chemistry</td>
<td>8 hours</td>
</tr>
<tr>
<td>PHY 111, 112 or 115, 116</td>
<td>Physics</td>
<td>8 hours</td>
</tr>
<tr>
<td>SPC 113 Fundamentals of Speech</td>
<td>3 hours</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>60 hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

**DEGREE REQUIREMENTS - CHEMISTRY**

**REQUIREMENTS FOR A MAJOR IN CHEMISTRY (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 114, 115</td>
<td>General Chemistry I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 324, 325</td>
<td>Organic Chemistry I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 314 Analytical Chemistry</td>
<td>5 hours</td>
<td></td>
</tr>
<tr>
<td>CHE 351 Biochemistry</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>MAT 270, 271</td>
<td>Calculus I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>PHY 111, 116</td>
<td>Physics I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>50 hours</strong></td>
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**REQUIREMENTS FOR A MINOR IN CHEMISTRY**

<table>
<thead>
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<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHE 114, 115</td>
<td>General Chemistry I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 324, 325</td>
<td>Organic Chemistry I, II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 401 Senior Seminar</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>20 hours</strong></td>
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</tbody>
</table>

**DEGREE REQUIREMENTS - SCIENCE TEACHING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181, 182</td>
<td>General Biology I and II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 101 Introduction to Chemistry</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>CHE 102 Introduction to Organic and Biochemistry</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>CS 133 Intro to Computer Science</td>
<td>3 hours</td>
<td></td>
</tr>
<tr>
<td>GLG 114 General Geology</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>PHY 106 Astronomy</td>
<td>4 hours</td>
<td></td>
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<tr>
<td>PHY 111, 112</td>
<td>General Physics I and II</td>
<td>8 hours</td>
</tr>
<tr>
<td>Elective in Biology</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Major in Elementary Education</strong></td>
<td><strong>47 hours</strong></td>
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**REQUIREMENTS FOR A MINOR IN SCIENCE TEACHING (B.S. DEGREE)**

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<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 181, 182</td>
<td>General Biology I and II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 101 Introduction to Chemistry</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>PHY 106 Astronomy or PHY 111 or 112 Physics I, II</td>
<td>4 hours</td>
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</tr>
<tr>
<td>Electives in Biology, Chemistry, Physics, or Geology</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Major in Elementary Education</strong></td>
<td><strong>47 hours</strong></td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
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**DEGREE REQUIREMENTS - NATURAL SCIENCES**

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<th>Hours</th>
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<tbody>
<tr>
<td>BIO 181, 182</td>
<td>General Biology I and II</td>
<td>8 hours</td>
</tr>
<tr>
<td>CHE 101 Introduction to Chemistry</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>PHY 106 Astronomy or PHY 111 or 112 Physics I, II</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>Electives in Biology, Chemistry, Physics, or Geology</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Major in Elementary Education</strong></td>
<td><strong>47 hours</strong></td>
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</tr>
</tbody>
</table>

**TOTAL** | **71 hours** |
BIOLOGY

The biology course offerings provide an opportunity to study one or more areas of life sciences, depending on the electives or as part of a major field of study. The student who completes a biology major will be prepared for a career in general biology, for graduate study in biology, or for teaching biology at the secondary school level. With additional work in chemistry and mathematics, the biology major is prepared for professional schools of medicine or health science, for careers as medical assistants, laboratory technicians, or other health science vocations.

BIO HUMAN BIOLOGY 150
Every semester/4 hours
A complex overview of the science of biology from a human perspective. Topics include cells, energetics, ecology, human anatomy, embryology, anatomy and physiology. 3 hrs lecture, 3 hrs lab. This course does not apply toward the biology major.

BIO GENERAL BIOLOGY I 181
Every Fall/4 hours
A comprehensive introduction to biology for science majors. The first semester will cover cellular biology, genetics, taxonomy and a survey of the plant kingdom. 3 hrs lecture, 3 hrs lab.

BIO GENERAL BIOLOGY II 182
Every Spring/4 hours
Combination of BIO 181 with emphasis on reproduction, development, population dynamics, ecology, evolution, and animal anatomy and physiology. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181 or instructor's approval.

BIO HUMAN ANATOMY AND PHYSIOLOGY I 201
Every Fall/4 hours
A study of the structure and function of the following human systems: nervous, endocrine, reproductive, cardiovascular, alimentary, respiratory and urinary. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181 or instructor's approval.

BIO HUMAN ANATOMY AND PHYSIOLOGY II 202
Every Spring/4 hours
A study of the structure and function of the following human systems: skeletal, muscular, cardiovascular, respiratory and urinary. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 201 or instructor's approval. No credit for biology majors (except those in physical therapy). They take BIO 373 and BIO 364 instead.

BIO INVERTEBRATE ZOOLOGY 219
Every Fall/4 hours
A comprehensive survey of 96 percent of the Kingdom Animalia, the invertebrates. The emphasis is on fish and invertebrates important to humans and their domestic animals. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181, 182.

BIO VERTEBRATE ZOOLOGY 223
Every Spring/4 hours
A comprehensive introduction to field biology, with emphasis on the fish and invertebrates of the southeastern United States. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181, 182.

BIO FIELD BIOLOGY 269
Spring, 1994/4 hours
A year-long study of field relationships of plants and animals. This course includes the basic concepts of plant and animal science and basic ecology. The student will learn the methods of field study, observation, classification, identification, collection, and preservation. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181, 182.

BIO GENETICS 324
Every Spring/4 hours
A comprehensive introduction to the principles of heredity and variation, including Mendelian genetics, molecular genetics, and population genetics. Laboratory studies will emphasize both classical and molecular genetic techniques. Prerequisite: BIO 181, 182, or instructor's approval.

BIO VERTEBRATE PHYSIOLOGY 364
Every Spring/4 hours
A study of the functions of cells, organs, and systems of vertebrates, with an emphasis on humans. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181.

BIO MAMMALIAN ANATOMY 373
Every Fall/4 hours
A laboratory study of the skeletal system of mammals, with an emphasis on the human. Includes a dissection of a human cadaver. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181, 182.

BIO AQUATIC ECOLOGY 374
Spring, 1994, and alternate years/4 hours
An ecological study of the plants and animals which live in and around water. The effect of man on aquatic ecosystems, and the water needs of man. Laboratory investigation in water analysis and aquatic ecosystems survey techniques. Prerequisites: BIO 181, 182.

BIO ECOLOGY 381
Every Fall/4 hours
A study of theoretical and applied ecology. Adaptations of organisms to their physical and biophysical environments, including predation, competition, and life history patterns. Other topics include ecological genetics and evolution, and the ecology of populations, communities and ecosystems. Prerequisite: BIO 181, 182.

BIO MICROBIOLOGY 397
Every semester/4 hours
An introduction to the principles and applications of microbiology, with a study of the general characteristics of micro-organisms and their relationship to man. Laboratory exercises include techniques of identification and handling of micro-organisms. 3 hrs lecture, 3 hrs lab. Prerequisite: BIO 181, BIO 182 or instructor's approval.

BIO DEPARTMENTAL TUTORING 396
Every semester/2 hours
For course descriptions see ACC 396 on page 112.

CHE INTRODUCTION TO CHEMISTRY 101
Every Fall/4 hours
An introduction to the principles of chemistry designed for students without a strong background in science. Topics cover chemical nomenclature, structure and properties of chemical compounds, chemical reactions, chemical energy, acids and bases, and chemical bonding. 3 hrs lecture, 3 hrs lab. Prerequisite: CHE 101.

CHE INTRODUCTION TO ORGANIC AND 102 BIOCHEMISTRY 102
Every Spring/4 hours
A survey of the structure and properties of organic compounds and reactions of organic compounds, with emphasis on the chemical nature of biological processes. Topics covered include identification and reactions of organic compounds, protein structure and function, carbohydrates and lipids, and nucleic acids, and the biological production and use of energy. 3 hrs lecture, 3 hrs lab. Prerequisite: CHE 101.

CHE GENERAL CHEMISTRY I 114
Every Fall/4 hours
An exploration of the principles of modern chemistry. Topics covered include the chemical and physical properties of elements and compounds, reaction stoichiometry, equilibria, and energetics, atomic and molecular structure. 3 hrs lecture, 3 hrs lab. Prerequisite: A mathematics competency test is required prior to registration in this course.

CHE GENERAL CHEMISTRY II 115
Every Spring/4 hours
Continuation of CHE 114. Topics include thermochemistry, descriptive chemistry, chemical and physical properties, electrochemistry, nuclear chemistry, and kinetics. 3 hrs lecture, 3 hrs lab. Prerequisite: CHE 114.

CHE ANALYTICAL CHEMISTRY 314
Every Fall/4 hours
Principles of quantitative and instrumental analysis. Topics include titrimetry, gravimetry, and analytical separation methods; and optical, magnetic, and electrochemical methods of analysis. 3 hrs lecture, 6 hrs lab. Prerequisite: CHE 115.

CHE ORGANIC CHEMISTRY I 324
Every Fall/4 hours
Systematic study of the chemistry of carbon compounds. Structure, synthesis, reactions, and analysis of aliphatic and aromatic compounds covered. 3 hrs lecture, 3 hrs lab. Prerequisite: CHE 115.

CHE ORGANIC CHEMISTRY II 325
Every Spring/4 hours
Continuation of CHE 324. Analysis and reactions of organic functional groups, and the relationship of structure to reactions mechanisms are covered. 3 hrs lecture, 3 hrs lab. Prerequisite: CHE 324.

CHE BIOCHEMISTRY 351
Every Spring/4 hours
Study of the chemical basis of biological processes. Topics covered include protein structure and function, carbohydrate and lipid chemistry, nucleic acids and genetic function, biologi cal regulation, production, and photosynthesis. 3 hrs lecture, 4 hrs lab. Prerequisite: CHE 254.
CHE DEPARTMENTAL TUTORING
396 Every semester/3 hours
For course description see ACC 396 on page 112.
CHE PRACTICUM
399 On demand/1-4 hours See page 51.
CHE SENIOR SEMINAR
401 Every semester/1 hour
All graduates in chemistry are required to prepare and present a scholarly seminar before the science faculty and students. Students should register for this course during the semester in which they plan to give their senior seminar.

CHE PHYSICAL CHEMISTRY I
421 Every Fall/4 hours
A study of the physical and chemical behaviour of gases, liquids, solids, and solutions. Treatment includes thermodynamics, electrochemistry, and the kinetic molecular theory of ideal and non-ideal gases. 3 hrs lecture, 3 hrs lab. Prerequisites: CHE 115 and MAT 271.

CHE PHYSICAL CHEMISTRY II
422 Every Spring/4 hours
Continuation of CHE 421. The development of modern atomic theory is studied, with emphasis on quantum theory, ligand fields, and molecular spectroscopy. 3 hrs lecture, 3 hrs lab. Prerequisite: CHE 421.

CHE RESEARCH IN CHEMISTRY
498 Every semester/1-3 hours
A detailed study of one or more chemical problems. May be repeated for up to 9 hours of credit. Prerequisite: Consultation with and instructor's approval.

CHE INDEPENDENT STUDY
499 On demand/1-4 hours See page 51.

TUT VOLUNTEER TUTORING
300/400 Every semester/No credit
For course description see TUT 300/400 on page 112.

GEOLOGY

GLG GENERAL GEOLOGY
114 Every Spring/3 hours
An introduction to physical and historical geology with an emphasis on the geology of Arizona. The relation of geology to man's cultural and economic development is stressed. Field and laboratory experiences. Will count as a laboratory science for general studies.

PHYSICS

PHY ASTRONOMY
106 Every Fall/4 hours
A study of the principles and history of astronomy, the cosmos, the solar system, and celestial phenomena. Appropriate as an elective for the nonscience student. Designed to develop an appreciation and understanding of the natural laws of the universe. 3 hrs lecture, 3 hrs lab.

PHY GENERAL PHYSICS I
111 Every Fall/4 hours
Survey of physical principles and concepts, using mathematical descriptions based on algebra and trigonometry. Topics covered include force and motion, physical properties of materials, and thermodynamics. 3 hrs lecture, 3 hrs lab. Prerequisite: MAT 121.

PHY GENERAL PHYSICS II
112 Every Spring/4 hours
Continuation of PHY 111. Topics covered include wave motion, electrostatics, optics, and magnetism. 3 hrs lecture, 3 hrs lab. Prerequisite: PHY 111.

PHY UNIVERSITY PHYSICS I
115 Every Fall/4 hours
Rigorous treatment of physical principles and concepts using mathematical descriptions based on calculus. Topics covered include mechanics, thermodynamics, and wave motion. 3 hrs lecture, 3 hrs lab. Prerequisite: MAT 271.

PHY UNIVERSITY PHYSICS II
116 Every Spring/4 hours
Continuation of PHY 115. Topics covered include electromagnetism, optics, and quantum theory. 3 hrs lecture, 3 hrs lab. Prerequisite: PHY 115.
The goals of the College of Business are to provide students with knowledge of the essential areas of business and an opportunity to major in international business, and management. The Business Education Track provides the student with a combination business and education degree which may lead to a secondary teaching credential. (See College of Education section of the catalog for information on obtaining a teaching credential.) The International Business Track draws heavily on the other majors and provides the student with a broad background in international business as preparation for a position in government or business. The Management Track provides the student with additional course work in the area of management. This track prepares the student for positions in business or industry which may lead to management positions. This track does not guarantee the student a management position upon entering a business. Management positions are always earned through demonstrated skills and hard work. The Economics major has as its objective the preparation of students who plan to enter general business or government. This degree is also an excellent preparation for the study of Law or other graduate study. The Finance major has as its objective the preparation of students who plan to enter the finance organizations of banks, leasing companies, government agencies, or other business entities. The emphasis is on applications, and extensive use is made of computer applications. The Human Resources Development major has as its objective the preparation of students who plan to work with businesses and other institutions in internal education and development. The marketing major combines a strong business core with special emphasis in market forces, marketing strategy, and sales management. The student is prepared for a career in marketing, sales, merchandising, or graduate study. The College of Business strives to challenge students in their broad academic pursuits and to encourage their personal development of Christian values and their concern for ethical business practices. "NOTE: The Direct Transfer Plan from accredited community colleges does not apply to the College of Business Program."

**APPLICATION PROCEDURES**

In order to become a candidate for any business major in the College of Business, the student must be admitted to the College of Business. The student must satisfy the following minimum requirements in order to be considered for admission:

1. Completion of the Lower Division business core.

2. Completion of the math requirement(s) for the specific business degree program.

3. Overall GPA of 2.5 or better for all college work.

4. Formal application for admission submitted to the College of Business.

5. Passing the Writing Proficiency Exam.

Exceptions to these requirements may be granted by the College of Business. Application forms may be obtained through the College of Business. Application forms are not required for business minors or students from other areas of study within the University. Admission to Grand Canyon University does not guarantee acceptance into the College of Business.

**INTERNSHIP GUIDELINES**

Internships are available in Fall and Spring semesters (not in Summer or January Term) for any discipline taught in the College of Business. In order to make adequate arrangements for an internship, the student should see the Director on Internships by the middle of the semester before the semester in which the internship is taken.

Guidelines for entry into the Business Internship System:

1. Internships are limited to Juniors and Seniors with a GPA of at least 2.8.

2. No more than two semesters of internships may be taken with the same organization, and in such a case, the second semester must be on a different project than the first semester. A third semester (with a different organization) may be approved as a Practicum with a different company.

3. NO ACADEMIC CREDIT WILL BE GRANTED FOR PERFORMING DUTIES IN THE PERSON'S CURRENT JOB.

**PRESCRIBED GENERAL STUDIES PROGRAM — ALL BUSINESS MAJORS**

**CHRISTIAN STUDIES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIB 113</td>
<td>Old Testament History</td>
<td>6</td>
</tr>
<tr>
<td>BIB 123</td>
<td>New Testament History</td>
<td>6</td>
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</table>

**ENGLISH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOW 101</td>
<td>Grammar &amp; Composition</td>
<td>6</td>
</tr>
<tr>
<td>EOW 102</td>
<td>Composition &amp; Literature</td>
<td>6</td>
</tr>
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</table>

**HUMANITIES**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 116</td>
<td>Ethics for the Professions</td>
<td>6</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Fundamentals of Speech</td>
<td>6</td>
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</table>

**SOCIAL STUDIES**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS Elective</td>
<td>History of the World Economic Development</td>
<td>9</td>
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**SCIENCE**

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<thead>
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<tbody>
<tr>
<td>MAT 121</td>
<td>College Algebra</td>
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**PHYSICAL EDUCATION**

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</thead>
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<td>IRE 100</td>
<td>Activity Topics</td>
<td>2</td>
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<tr>
<td>IRE 101</td>
<td>Personal Fitness</td>
<td>2</td>
</tr>
<tr>
<td>IRE 102</td>
<td>Physical Activity</td>
<td>2</td>
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</table>

**TOTAL**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IRE 100</td>
<td>Activity Topics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 101</td>
<td>Personal Fitness</td>
<td>2</td>
</tr>
<tr>
<td>IRE 102</td>
<td>Physical Activity</td>
<td>2</td>
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</tbody>
</table>

**TOTAL**

**ACADEMIC CREDIT WILL BE GRANTED FOR PERFORMING DUTIES IN THE PERSON'S CURRENT JOB.**
<table>
<thead>
<tr>
<th>LOWER DIVISION BUSINESS CORE</th>
<th>ALL BUSINESS MAJORS</th>
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</thead>
<tbody>
<tr>
<td>ACCOUNTING</td>
<td>6 hours</td>
</tr>
<tr>
<td>ACC 211 Financial Accounting</td>
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</tr>
<tr>
<td>ACC 215 Managerial Accounting</td>
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<tr>
<td>ECONOMICS</td>
<td>6 hours</td>
</tr>
<tr>
<td>ECO 201 Macro Economics</td>
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</tr>
<tr>
<td>MAC 202 Micro Economics</td>
<td></td>
</tr>
<tr>
<td>LOGIC-LANGUAGE OPTION</td>
<td>6-8 hours</td>
</tr>
<tr>
<td>I. PHI 215 Principles of Logic and a choice of CS Elective (computer language) or FIN 307</td>
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</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>II. 2 semesters of a modern foreign language (See catalog)</td>
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</tr>
<tr>
<td>STATISTICS</td>
<td>3 hours</td>
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<tr>
<td>BUS 251 Business Statistics</td>
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<td>TOTAL</td>
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<table>
<thead>
<tr>
<th>UPPER DIVISION BUSINESS CORE</th>
<th>ALL BUSINESS MAJORS</th>
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<tbody>
<tr>
<td>ENVIRONMENTAL, INTEGRATING &amp; SUPPORTING</td>
<td>10 hours</td>
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<tr>
<td>BUS 307 Business Communications or BUS 308 Business/Technical Writing</td>
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<tr>
<td>BUS 310 Business Law I</td>
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</tr>
<tr>
<td>BUS 409 Preparation for Employment</td>
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</tr>
<tr>
<td>BUS 480 Business Policy</td>
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<table>
<thead>
<tr>
<th>FUNCTIONAL AREAS</th>
<th>FIN 301 Business Finance</th>
<th>MGT 301 Principles of Management</th>
<th>MKT 301 Principles of Marketing</th>
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</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>9 hours</td>
<td>19 hours</td>
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</tbody>
</table>

* Not required for Business Education Track.

**PROPOSED COURSE PROGRAM**

**SUGGESTED PROGRAM FOR BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**

Freshman and sophomore years — all business majors

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Full Jan. Spring</th>
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<tbody>
<tr>
<td>BUS 113, 121</td>
<td>3</td>
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<tr>
<td>ERE 101, 102</td>
<td>3</td>
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<tr>
<td>MAT 121, Lab Science</td>
<td>4</td>
</tr>
<tr>
<td>History Elective</td>
<td>3</td>
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<tr>
<td>CIS 155</td>
<td>3</td>
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<tr>
<td>EE</td>
<td>3</td>
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<tr>
<td>Electives (Jan Term)</td>
<td>Options (3)</td>
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<tr>
<td>TOTALS</td>
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**Sophomore Year**

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<tr>
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<tbody>
<tr>
<td>BUS 111, 112</td>
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<tr>
<td>ACC 201, 212</td>
</tr>
<tr>
<td>Logic/Language</td>
</tr>
<tr>
<td>option (or major)</td>
</tr>
<tr>
<td>BUS 251, ECO 220</td>
</tr>
<tr>
<td>ECO 201, 202</td>
</tr>
<tr>
<td>Soc. Stud. Elective</td>
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<tr>
<td>SPC 113</td>
</tr>
<tr>
<td>TOTALS</td>
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</tbody>
</table>

**DEGREE REQUIREMENTS — ACCOUNTING**

**REQUIREMENTS FOR A MAJOR IN ACCOUNTING (B.S. DEGREE)**

| General Studies for Business | 40 hours |
| Free Electives               | 24 hours |
| Lower Division Business Core | 21 hours |
| (Logic Option I required)   |         |
| Upper Division Business Core | 19 hours |
| Accounting Core              |         |
| ACC 321 Intermediate Accounting I | |
| ACC 322 Intermediate Accounting II | |
| ACC 331 Cost Accounting      |         |
| ACC 351 Income Tax Accounting | |
| ACC 383 Advanced Accounting  |         |
| ACC 481 Auditing Accounting  |         |
| Choice of Accy Theory, Tax Research, Gov’t & Institic Accy, or Independent Study | |
| BUS 315 Business Law II      | 24 hours |
| TOTAL                        | 128 hours |

* Business Calculus required

**SUGGESTED CURRICULUM PLAN**

**Junior Year**

<table>
<thead>
<tr>
<th>Full Jan. Spring</th>
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<tbody>
<tr>
<td>BUS 307, PHI 311</td>
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<tr>
<td>FIN 310, MKT 311</td>
</tr>
<tr>
<td>BUS 310, BUS 315</td>
</tr>
<tr>
<td>BUS 310, BUS 315</td>
</tr>
<tr>
<td>MGT 301, Elective</td>
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<tr>
<td>Elect, PHS 305, Elect</td>
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<tr>
<td>TOTALS</td>
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</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Full Jan. Spring</th>
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<tbody>
<tr>
<td>BUS 409, BUS 480</td>
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<tr>
<td>FIN 426, MGT 426</td>
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<tr>
<td>BUS 315, Elective</td>
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<tr>
<td>Elect, BUS 315, Elective</td>
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<td>TOTALS</td>
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</tbody>
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**SUGGESTED CURRICULUM PLAN**

**Junior Year**

<table>
<thead>
<tr>
<th>Full Jan. Spring</th>
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<tbody>
<tr>
<td>BUS 307, PHI 311</td>
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<tr>
<td>FIN 310, MKT 311</td>
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<tr>
<td>BUS 310, BUS 315</td>
</tr>
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<td>BUS 310, BUS 315</td>
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<tr>
<td>MGT 301, Elective</td>
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<td>Elect, PHS 305, Elect</td>
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<td>TOTALS</td>
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**Senior Year**

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<th>Full Jan. Spring</th>
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<tr>
<td>BUS 409, BUS 480</td>
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<tr>
<td>FIN 426, MGT 426</td>
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<tr>
<td>BUS 315, Elective</td>
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<td>Elect, BUS 315, Elective</td>
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<tr>
<td>TOTALS</td>
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**Requirements for Business Education Track (B.S. Degree)**

| General Studies for Business Education | 46 hours |
| Complete New Testament History | 15 hours |
| Electives (Jan Term) | Options (3) |
| TOTALS | 15 (3) 15 |

**DEGREE REQUIREMENTS — BUSINESS ADMINISTRATION**

| REQUIREMENTS FOR INTERNATIONAL BUSINESS TRACK (B.S. DEGREE) | 40 hours |
| Free Electives | 24 hours |
| Lower Division Business Core | 21 hours |
| *Language option II requirement |         |
| Upper Division Business Core | 19 hours |
| International Business Core | 21 hours |
| BUS 315 Business Law II | |
| BUS 375 International Business Relations or International elective | |
| FIN 305 Speculative Markets | |
| FIN 425 International Finance | |
| MGT 421 International Management | |
| MGT 425 International Marketing | |
| TOTAL | 128 hours |

| * Modern foreign language proficiency (4 semester credits (10-16 hours) or equivalent on proficiency exam) | |

**SUGGESTED CURRICULUM PLAN**

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<tr>
<th>Junior Year</th>
<th>Full Jan. Spring</th>
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<td>BUS 307, PHI 311</td>
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<td>FIN 310, MKT 311</td>
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<td>BUS 310, BUS 315</td>
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<td>MGT 301, Elective</td>
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<td>Elect, PHS 305, Elect</td>
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<td>TOTALS</td>
<td>15 (3) 15</td>
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**Senior Year**

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<th>Full Jan. Spring</th>
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<td>Elect, BUS 315, Elective</td>
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<td>TOTALS</td>
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</table>

**Requirements for Business Education Track (B.S. Degree)**

| General Studies for Business Education | 46 hours |
| Complete New Testament History | 15 hours |
| Electives | Options (3) |
| TOTALS | 15 (3) 15 |

**CHRISTIAN STUDIES**

| BIB 113 Old Testament History | 15 hours |
| BIB 123 New Testament History | |

**ENGLISH**

| EAW 101 Grammar & Composition | 3 hours |
| EAW 102 Composition & Literature | |

**HUMANITIES**

| SPC 113 Fundamentals of Speech for Teachers | 6 hours |
| PHI 311 Ethics for the Professions | |

**SOCIAL STUDIES**

| Choice of American History | 3 hours |
| ECO 200 History of World Economic Dev | |
| GOV 203 Federal & AZ Government | |
| PSY 101 General Psychology | |
| PSY 373 Adolescent Psychology | |

**SCIENCE**

| CMB 111 College Algebra | 3 hours |
| CMB 112 Intro to Computer Science | |
| One Lab Science (Must be 4 hours) | |

**PHYSICAL EDUCATION**

| Must be different activity courses | 21-23 hours |
| Lower Division Business Core | |
| See language option | |
| Upper Division Business Core | 18 hours |
| Business Education | 9 hours |
| Upper Division Business elective | |
| Marketing elective | |
| BUS 400 Internship or Upper Division Business elective | |
| Professional Education | 36 hours |
| EDU 303 Foundations of Education | |
| EDU 313 Educational Psychology | |
| EDU 343 Instructional Media | |
| EDU 415 Tests & Measurements | |
| EDU 420 Orientation to Student Teaching | |
| EDU 430 Classroom Management | |
| SED 442 Secondary Methods | |
| SED 443 Secondary Curriculum Development | |
| **SED 442 Reading in Secondary School | |
| **SED 442 Reading Practicum in Sec School | |
| SED 490 Student Teaching: Sec School | |
| SPE 323 Orient to the Exceptional Child | |

**TOTAL | 130-132 hours**

* Or Business Calculus

**Must be taken concurrently.

Suggested curriculum plan will be developed with an advisor from the College of Education. Vocational Distributive Education Certificates are awarded through the Certification Division of the Arizona Department of Education rather than Grand Canyon University; therefore, submit an official transcript to that office. Also, submit to the Certification Division documentation of 2,000 clock hours of successful occupational experience in a marketing or business management position within the last ten years for an approved planned occupational experience.
DEGREE REQUIREMENTS — HUMAN RESOURCES DEVELOPMENT

REQUIREMENTS FOR A MAJOR IN HUMAN RESOURCES DEVELOPMENT (B.S. DEGREE)

General Studies for Business 40 hours
Free Electives 11-13 hours
Lower Division Business Core 21-23 hours
See logic-language option 19 hours
Upper Division Business Core 26 hours
Human Resources Development Core 50 hours
EDU 363 Instructional Media 26 hours
HRD 301 Principles of HRD 19 hours
HRD 302 Principles of HRD II 20 hours
HRD 304 Business Conference Leadership 21 hours
HRD 411 HRD Internship I 21 hours
HRD 412 HRD Internship II 21 hours
MGT 321 Human Resource Management 21 hours
MGT 415 Organizational Behavior 21 hours
Electives from the following: 9 hours
BUS 320 Organizational Realities 9 hours
MGT 311 Leadership 9 hours
MGT 411 International Management 9 hours
**PSY 355 Industrial Psychology 9 hours
**PSY 443 Counseling and Guidance 9 hours
SED 442 Secondary Methods 9 hours
SED 443 Secondary Curriculum Development 9 hours

TOTAL 128 hours

SUGGESTED CURRICULUM PLAN

Junior Year
BUS 301, PHI 311 3 3
FIN 301, MGT 301 3 3
BUS 310, B/E 3 3
MGT 301, MGT 321 3 3
B/E, BUS 320, B/E 3 (3) 3
TOTALS 15 (3) 15

Senior Year
BUS 409, BUS 480 3 3
MGT 421, MGT 415 3 3
Electives 9 (3) 9
TOTALS 15 (3) 15
B/E: Business Elective
BUSINESS LAW I 310  Every semester/3 hours  A study of the development of our legal system with a brief study of the nature of crimes, torts, and taxes liability. The course also includes contracts, agency, and property.

BUSINESS LAW II 315  Every semester/3 hours  Continuation of BUS 310. Included in this course is the study of partnerships, corporations, sales, commercial paper, credit, and government regulations and agencies.

ORGANIZATIONAL REALITIES 320  January Term or on demand/3 hours  Provides current information supplementing traditional management and organizational behavior curricula to give students greater appreciation for the complexity of "real world" existence in organizations. Explores how organizations are experienced through strategies of power, alliances, manipulation, influence, performance, visibility, symbols, and values. Prerequisite: Junior standing.

INTERNATIONAL BUSINESS RELATIONS 375  On demand/3 hours  An introductory study of the history, culture, political, and economic climate in different areas as it relates to the U.S. business man or woman. After establishing a basis of understanding of the region, the course will explore the import/export opportunities for the U.S., including a discussion of some of the problems and solutions from marketing within the region. Prerequisites: BUS 301, MGT 301 and MGT 801.

DEPARTMENTAL TUTORING 396  Every semester/3 hours  For course description see ACC 396 on page 112.

PRACTICUM 399  On demand/1-3 hours  See page 51.

ACCOUNTING INTERNSHIP 411  Every Fall/Spring 3 hours  An opportunity for students to practice principles learned in their functional area by working at least 8 hours per week in an outside organization under the supervision of a practitioner. Prerequisite: Junior standing.

ACCOUNTING INTERNSHIP II 412  Every Spring/Spring 3 hours  Continuation of ACC 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: ACC 411.

INSTITUTIONAL ACCOUNTING 432  Every semester/3 hours  For course description see ACC 432 on page 114.

ACCOUNTING THEORY 441  Every Spring/3 hours  For course description see ACC 441 on page 114.

BUSINESS STATISTICS 251  Every semester/3 hours  A study of the use of statistical methods in decision making including probability, tests of significance and correlation and regression analysis.

BUSINESS COMMUNICATIONS 307  Every semester/3 hours  Practice in writing effective business letters, memoranda, and reports. Emphasis on effective written communication as it applies to human relations in business; a managerial approach to effective communication.

BUSINESS AND TECHNICAL WRITING 308  Every semester/3 hours  For course description see BUS 308 on page 114.

BUSINESS LAW I 310  Every semester/3 hours  A study of the development of our legal system with a brief study of the nature of crimes, torts, and taxes liability. The course also includes contracts, agency, and property.

BUSINESS LAW II 315  Every semester/3 hours  Continuation of BUS 310. Included in this course is the study of partnerships, corporations, sales, commercial paper, credit, and government regulations and agencies.

ACCOUNTING INTERNSHIP 411  Every Fall/Spring 3 hours  An opportunity for students to practice principles learned in their functional area by working at least 8 hours per week in an outside organization under the supervision of a practitioner. Prerequisite: Junior standing.

ACCOUNTING INTERNSHIP II 412  Every Spring/Spring 3 hours  Continuation of ACC 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: ACC 411.

BUSINESS STATISTICS 251  Every semester/3 hours  A study of the use of statistical methods in decision making including probability, tests of significance and correlation and regression analysis.

BUSINESS COMMUNICATIONS 307  Every semester/3 hours  Practice in writing effective business letters, memoranda, and reports. Emphasis on effective written communication as it applies to human relations in business; a managerial approach to effective communication.

BUSINESS AND TECHNICAL WRITING 308  Every semester/3 hours  For course description see BUS 308 on page 114.
BUSINESS POLICY
640 Every semester/3 hours
A Business Capstone Case Course. Focuses on identification and analysis of general management problems in order to formulate policy recommendations to meet the needs of a general manager. Open only to senior business students. Prerequisites: Lower Division and Upper Division Business Core and Instructor's Preapproval.

INDEPENDENT STUDY
499 On demand/1-4 hours See page 51.

TUTOR VOLUNTEER TUTORING
500 Every semester/No credit
For course description see TUT 300/400 on page 112.

ECONOMICS

WORLD ECONOMIC HISTORY
220 Every Fall/3 hours
A study of world history and geography, focusing on economic development, international wealth distribution, and trade patterns. Cultural and historical forces affecting production and commerce in the major regions of the world are examined, as are various forms of economic organization. Prerequisites: Placement on Writing Proficiency Exam, and ECO 201 or ECO 202.

ECO 321 Every third semester/3 hours
An examination of the causes of poverty in the Third World and "Least Developed" countries of Asia, Africa, and Latin America. Emphasis is placed on what role, if any, wealthy countries can take in alleviating the condition of poorer nations. Issues such as the Third World debt crisis and foreign aid are examined analytically. Prerequisites: ECO 201, ECO 202, ECO 220.

ECO 332 Every third semester/3 hours
An intermediate-level course in microeconomics dealing with decision-making of individuals, the influence of constraints on behavior, and individuals' reactions to uncertainty. Also explored is how decisions are made over time and how the individual affects industry demand. Prerequisites: ECO 201, ECO 202, MAT 210.

MANAGERIAL ECONOMICS
333 Every third semester/3 hours
An application-oriented intermediate course in microeconomics dealing with decision-making of business firms, the influence of constraints on business behavior, and business attempts to forecast demand and cost conditions. Also explored is how firms react to specific demand conditions and the influence of competition and market power decisions. Prerequisites: BUS 251, ECO 201, ECO 202 and MAT 121 or equivalent.

MONEY AND BANKING
363 Every third semester/3 hours
A general survey of commercial banking operations, the Federal Reserve System, the qualities of a good monetary system, the theory of value of money, money and banking history, deposit insurance, and foreign exchange. Prerequisites: MAT 121 or equivalent, ECO 201, ECO 202.

ECO 368 Every third semester/3 hours
A study of the economic development of the nation in agriculture, manufacturing, transportation, money and banking, labor organization, and labor legislation. Prerequisites: ECO 201, HIS 103, HIS 104.

DEPARTMENTAL TUTORING
396 Every semester/1 hour
For course description see ACC 296 on page 112.

PRACTICUM
399 On demand/1-4 hours See page 51.

FINANCE

BUSINESS FINANCE I
301 Every semester/3 hours
A study of the finance function within the modern corporation. Topics covered include basic concepts in financial analysis and planning, the valuation of financial assets, capital budgeting, capital structure, and working capital management. Prerequisites: ACC 214, BUS 251 and CS 133.

INVESTMENTS
301 Every semester/3 hours
Primary emphasis on stocks and bonds as investments. Portfolio theory, security analysis, valuation, bond immunization, and bond swaps are discussed. Prerequisites: FIN 301.

SPECTATIVE MARKETS
305 January Term/3 hours
A course in the options and futures markets. Characteristics of specific contracts, the workings of the various markets, theories and approaches to valuation, and hedging opportunities are covered. Applications to investments, corporate finance, and the management of financial institutions are emphasized. Prerequisites: FIN 301.

FINANCIAL MODELING
307 Every Fall/3 hours
A course in the structure and analysis of financial decisions on the microcomputer. Models in the areas of investments, corporate finance, and financial institution management are considered. Spreadsheet and financial databases are employed as analytical tools. Prerequisites: CS 131, FIN 301.

DEPARTMENTAL TUTORING
396 Every semester/1 hour
For course description see ACC 396 on page 112.

PRACTICUM
399 On demand/1-4 hours See page 51.

BUSINESS FINANCE II
401 Every Spring/3 hours
An advanced course in corporate finance. The case study method is utilized to cover such topics as financial analysis, financial planning, working capital management, leasing, bankruptcy, and mergers. Prerequisite: FIN 301.

FINANCIAL INSTITUTIONS
405 Every Fall/3 hours
Aspects of financial institution management and the changing environment of financial institutions are covered. Topics include asset and liability management, capital adequacy, and measuring and controlling interest rate risk. Prerequisite: FIN 301.

FINANCE INTERNSHIP I
411 Every Fall/3 hours
An opportunity for students to practice principles learned in their functional area by working at least 8 hours per week in an outside organization under the supervision of a practitioner. Prerequisites: Senior standing, completion of Lower Division Business Core and FIN 301.
FINANCE INTERNSHIP II
Every Spring/3 hours
Continuation of FIN 411. Further experience practicing functional skills under the supervision of a government/police, and Comptroller. Prerequisite: FIN 411.

INTERNATIONAL FINANCE
425 Fall, 1996, and alternate years/3 hours
A study of the international dimension of corporate financial management. Foreign exchange rate determination, risk and speculation in the foreign exchange markets, aspects of direct foreign investment, political risk, financing problems of the multinational firm, and the institutional aspects of multinational finance are discussed. Prerequisite: FIN 305.

REAL ESTATE INVESTMENT
435 Fall, 1989, and alternate years/3 hours
A study of real estate valuation and the characteristics of real property as an investment. Prerequisite: FIN 301.

INDEPENDENT STUDY
499 On demand/4-6 hours
See page 51.

VOLUNTEER TUTORING
300 Every semester/No credit
400 For course description see TUT 300/400 on page 112.

HUMAN RESOURCES DEVELOPMENT

HUMAN RESOURCES
301 DEVELOPMENT PRINCIPLES I
Every Fall/3 hours
Provides initial exposure in some depth to specific areas of specialization, methods and techniques used by human resource development professionals in business, government, and industries of varied size. Prerequisite: Completion of Lower Division Business Core.

302 DEVELOPMENT PRINCIPLES II
Every Spring/3 hours
Continuation of HRD 301. Giving the student a base of knowledge upon which to build a career in human resource development or to understand the role of training as a tool of management. Prerequisite: HRD 301.

BUSINESS CONFERENCE LEADERSHIP
304 Every Spring/3 hours
Teaches the competencies of leading a business conference and discussion groups, primarily as a learning device or for problem-solving. Prerequisite: SPC 113 and completion of Lower Division Business Core.

DEPARTMENTAL TUTORING
396 Every semester/2 hours
For course description see ACC 396 on page 112.

PRACTICUM
399 On demand/4-6 hours
See page 51.

HUMAN RESOURCES
411 DEVELOPMENT INTERNSHIP I
Every Fall/6 hours
The student will be given an opportunity to practice the principles learned in HRD Principles I and II by spending at least 8 hours a week in a department of human resource development. Prerequisites: EDU 194, HRD 302, and Senior standing.

412 DEVELOPMENT INTERNSHIP II
Every Spring/6 hours
The student will have further opportunity to work under the supervision of a human resource development officer in an industrial company, a business, a hospital, or a government agency, depending upon one's special interest. Prerequisite: HRD 411.

INDEPENDENT STUDY
499 On demand/4-6 hours
See page 51.

VOLUNTEER TUTORING
300 Every semester/No credit
400 For course description see TUT 300/400 on page 112.

MANAGEMENT

PRINCIPLES OF MANAGEMENT
301 Every summer/3 hours
An introductory course which deals with management in general and the basic management process and functions in particular, focusing on all world management situations concerned with planning and getting and putting routine work. Prerequisite: Junior standing and MGT 301.

ORGANIZATIONAL BEHAVIOR
415 Every Spring/3 hours
A study of the interpersonal relationships between individuals and groups in an organizational setting. The problems that arise as a result of these relationships are analyzed and evaluated using the case method approach. Prerequisites: Senior standing and MGT 301.

INTERNATIONAL MANAGEMENT
421 Every Fall/3 hours
Concepts and practices of management in multinational and foreign firms. Objectives, strategies, policies and organizational structures for operating in various environments. Current issues of operating offshore. Prerequisites: Senior standing and MGT 301.

INDEPENDENT STUDY
499 On demand/4-6 hours
See page 51.

VOLUNTEER TUTORING
300 Every summer/No credit
400 For course description see TUT 300/400 on page 112.

LEADERSHIP

LEADERSHIP
311 Fall, on demand/3 hours
An exploration into leadership in all areas of human conduct from the home and family to government/politics, and business. Offered in both the private and public sector. Recommended for any student who may want to assume a leadership position now or in the future. Prerequisites: Junior standing and MGT 301.

HUMAN RESOURCE MANAGEMENT
321 Every Spring/3 hours
Analysis of the personal policies of business enterprises. Areas of study include selection, placement, training, promotion, morale, employee services, and organization and functions of personnel departments. Prerequisites: Junior standing and MGT 301.

DEPARTMENTAL TUTORING
396 Every semester/2 hours
For course description see ACC 396 on page 112.

PRACTICUM
399 On demand/4-6 hours
See page 51.

MANAGEMENT INTERNSHIP I
411 Every Fall/3 hours
An opportunity for students to practice principles learned in their functional areas by working at least 8 hours per week in an outside organization under the supervision of a practitioner. Prerequisites: Senior standing and MGT 301.

MANAGEMENT INTERNSHIP II
412 Every Spring/3 hours
Continuation of MGT 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisites: MGT 301.

ADVERTISING PRINCIPLES
304 Every Spring/3 hours
A study of advertising methods, media and strategy. Prerequisite: MGT 301.

MARKETING SIMULATION
301 Junior Year/3 hours
An interactive decision simulation game experience which requires students to make marketing strategy decisions and "to live" with the consequences. Up to five firms in an "industry" will compete for market share and profits. Prerequisites: Instructor's approval, MGT 301.

DEPARTMENTAL TUTORING
396 Every semester/2 hours
For course description see ACC 396 on page 112.

PRACTICUM
399 On demand/4-6 hours
See page 51.

RETAIL MANAGEMENT
410 Every Spring/3 hours
A study of retail operations, planning, merchandising, promotion and control. Prerequisite: MGT 302.

MARKETING INTERNSHIP I
411 Every Fall/3 hours
An opportunity for students to practice principles learned in their functional areas by working at least 8 hours per week in an outside organization under the supervision of a practitioner. Prerequisites: Senior standing, completion of Lower Division Business Core and MGT 301.

MARKETING INTERNSHIP II
412 Every Spring/3 hours
Continuation of MGT 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisites: MGT 411.
MKT INTERNATIONAL MARKETING
425 Every Fall/Spring
An introduction to concepts of marketing on a global scale—considers and develops a framework of analysis of the many environments which multinational marketing organizations must understand.
Prerequisites: Lower Division Business Core, FIN 301, MGT 301 and MKT 301.

MKT MARKETING RESEARCH
440 Every Fall/Spring
A study of research design, survey making, sampling and questionnaire design. Prerequisites: BUS 251 and MKT 301.

MKT MARKETING MANAGEMENT
480 Every Fall/3 hours
A study of marketing objectives and policies that require executive decisions, marketing activities that relate to other policy areas. Prerequisites: FIN 301, MGT 301, MKT 301 and MKT 302.

MKT INDEPENDENT STUDY
499 On demand/2-4 hours. See page 51.

TUT VOLUNTEER TUTORING
300/400
Every semester/No credits
400 For course description see TUT 300/400 on page 112.
COLLEGE OF EDUCATION
DESCRIPTION
The preparation of teachers for the public/private schools of our nation is a significant responsibility of the College of Education. The programs are designed to insure the highest level of professional and academic competence of the graduate in the classroom. The Master of Arts (M.A.) and the Master of Education (M.Ed.) degree programs were accredited in June, 1987. Refer to pages 126 and 127 for descriptions of these programs of study.

GUARANTEE STATEMENT
Starting with its December 1984 graduates, Grand Canyon University has provided the following guarantee: Grand Canyon University will GUARANTEE assistance to any teacher graduate who is experiencing difficulty in the first year of teaching. Believing in the excellence of our program, we will provide assistance to any graduate recommended by Grand Canyon for teaching certification in the state of Arizona at the elementary or secondary level. This assistance continues through their first year of teaching at no expense to the school district or to the teacher graduate.

Faculty from Grand Canyon University will support the new teacher by acting as consultants in such areas as: curriculum planning and design, classroom management, content presentation, and individualized instruction.

The need for assistance may be determined by the Grand Canyon graduate or by the principal or superintendent. The College of Education will respond to such requests provided faculty with appropriate expertise, either from Education or other disciplines.

PROGRAM FEATURES
The Education Program provides these special features:
• Practical classroom experience begins as early as the sophomore year with a minimum of 90 hours in the K-12 classroom prior to student teaching.
• Opportunities to design curriculum materials.
• Student professional organization which provides encouragement to you in projects, workshops and academic areas.
• A placement service that has averaged a 94% placement rate for education graduates in the past ten years.
• Faculty who have an average of 10 years experience in the school system.
• Adjunct faculty who hold concurrent employment in classroom and administrative positions.
• Choices of study in the areas of: Special Education — Learning Disabilities, Emotionally Handicapped, Gifted (grades K-12), Secondary (grades 7-12) with a subject area emphasis. Elementary (grades K-8).
• Reading Endorsement (grades K-12).

TEACHER EDUCATION CURRICULA
The courses in education are planned primarily to provide curricula for certification of elementary teachers, secondary teachers, and special education teachers.

Course work is offered leading to teaching programs in the following areas:
1. Elementary Education (A minor in a content area commonly taught in grades K-8 in public schools in Arizona is required);
2. Special Education (Learning Disabilities, Emotionally Handicapped and Gifted.) A minor is required;
3. Secondary Education (Certifiable majors are determined by the Arizona State Department of Education as any course of study that is commonly taught in grades 7-12 in public schools in Arizona.) Refer to the prospective departments for a listing of those major requirements.
4. Endorsements (K-12) for Art, Music, and Physical Education. In order to qualify for an Endorsement, one must also have an Elementary Certificate or a Secondary Certificate. The Endorsement involves at least 46 semester hours in the specific teaching field. The methods of teaching in the specific teaching field at the elementary level and the secondary level must both be included in the 46 hours. Endorsements are also offered in Gifted and Reading Education.

The teacher education program of Grand Canyon University is approved by the State Board of Education and leads to certification in the following manner:

TEMPORARY CERTIFICATE: ELEMENTARY OR SECONDARY
A person with a bachelor's degree may normally qualify for a temporary certificate for teaching in the elementary or secondary schools of Arizona if he has credit for the courses required for professional preparation, including student teaching. Any portion of this professional preparation, including a study of psychology, curriculum, methods of teaching, and student teaching, may be included in the work leading toward the bachelor's degree.

STANDARD CERTIFICATE: ELEMENTARY OR SECONDARY
One who has already earned a bachelor's degree may normally qualify for the standard teaching certificate by completing at least 40-47 hours in upper division courses during a special Fifth Year program designed by the Dean of the College of Education in consultation with the student which will include prescribed professional courses (see page 124). The student who would be enrolled in the Fifth Year program is encouraged to enter the Master of Education (M.Ed.) program (see page 124).

APPLICATION PROCEDURES
ELIGIBILITY
In order to become a candidate for teacher education, a student must have completed at least 45 semester hours of college work with a minimum grade point average of 2.5 on all work taken as well as a 2.5 GPA in residence at Grand Canyon. In order to be accepted as a candidate for a secondary certificate, one must also have a 2.5 GPA in the teaching field; and one seeking K-12 subject certification must have a 2.5 GPA in the appropriate teaching field.

All candidates must have passed the Writing Proficiency Examination (see page 58).

In order to be exempted from the writing exam, candidates must have received a 4.0 GPA in the required freshman English courses taken at Grand Canyon University.

All candidates must also have passed the basic skills component of the Arizona Teacher Proficiency Examination (ATPE). Applications for the ATPE must be available in the Education Office of the Faculty Office Building.

Application procedures and policies are available in an Education Packet at the campus bookstore.

APPLICATION FOR TEACHER EDUCATION
After completing 45 semester hours, prospective candidates must make written application to the Dean of the College of Education for admission to the Teacher Education Program.

Applications are not processed until they are submitted in complete form and all supporting reference letters are received. Applicants are responsible for any follow-up necessary for completing their application files. Completed applications are to be on file four weeks prior to the beginning of the semester or term in which students plan to commence the teacher preparation program. Any applications not completed within twelve months will be discarded.

Students will be notified in writing as to the action taken on their applications by the Dean representing the College of Education faculty, subject to appeal to the College of Education and the Academic Affairs Committee.

Students accepted into the program will be issued a card indicating their acceptance. Since certain methods courses and student teaching are reserved for students who have been accepted into the Teacher Education Program, the card will need to be presented at each registration time by students who wish to enroll in any of the education courses except EDU 303, 315, 363, EED 340, 346, 350, or EED 442.

Once accepted into the Teacher Education Program at Grand Canyon University, or once you have completed one semester in residence as a full-time student at Grand Canyon University, any subsequent courses the student may wish to transfer for purposes of meeting program requirements for student teaching and/or certification may only be done with prior written permission of the College of Education faculty.

Elementary Education majors must have a total of 28 hours in their major taken in residence at Grand Canyon University. At least 12 of these hours must be elementary education methods courses to be selected from EED 323, 343, 453, 453S, 453N, 463, or 463S.

Secondary Education must have a total of 21 hours in Education taken in residence at Grand Canyon or by transfer.
All students must complete eight (8) semester hours to include nine (9) weeks of student teaching in each area of certification.

Student teachers who are not enrolled in a regular program at Grand Canyon University must present a letter of request from the institution sponsoring their certification program. If students are working directly with the State Department of Education for certification, they must meet with the College of Education Dean and submit the following documents:

1. Official Evaluation form from the State Department of Education;
2. Passage of the Basic skills component of the Arizona Teacher Proficiency Examination (ATPE);
3. Completion of 12 hours in residence at Grand Canyon University to include SED 442, 443, 452, and 462 or 12 hours in Elementary Education to be selected from EED 323, 343, 403, 433, or 463;
4. Maintenance of overall GPA of 2.5 and 2.5 in the major area of study at Grand Canyon University.

All students must complete regular matriculation requirements with the Records Office before entering the teacher education program.

STUDENT TEACHING SEMESTER

The student teaching semester is offered on a "quarter" basis. The students complete 12-14 hours of course work in a single semester which is divided into two blocks. The first block lasts 6 weeks, during which time students take 4-6 hours of course work in professional education. The second block, of nine weeks duration, is reserved for student teaching and carries 8 hours of credit.

Grand Canyon University provides experience in student teaching through an arrangement made with more than 60 school districts throughout the state. Supervision of the student teacher is performed by the school to which the student is assigned.

The student teaching assignment is an on-site program at the school and the student is expected to follow the same work schedule as the cooperating teacher. The evaluation of the student teacher's work is a dual responsibility of the University and the school in which the student teaching is done. Any student who withdraws from student teaching or any student who does not receive credit for student teaching, must appeal in writing to the faculty of the College of Education for re-admission.

DEGREE REQUIREMENTS — ELEMENTARY EDUCATION/ CERTIFICATION (Grades K-8)

REQUIREMENTS FOR A MAJOR IN ELEMENTARY EDUCATION (B.S. DEGREE)

- EDU 303 Foundations of Education
- EDU 315 Educational Psychology
- EDU 363 Instructional Media
- EED 323 Curriculum and Methods: Science
- EED 340 Emergent Language
- EED 343 Curriculum and Methods: Language Arts
- EED 403 Curriculum and Methods: Mathematics
- EED 433 Curriculum and Methods: Reading/Decoding
- EED 443 Reading Practicum in the Elementary School
- EED 463 Curriculum and Methods: Special Studies
- SPE 323 Orientation to the Exceptional Child
- SPE 331 Survey of Learning Disabilities
- SPE 363 Methods of Teaching Children with Learning Disabilities
- SPE 433 Diagnosis of Learning Needs of Exceptional Children
- Elective in Special Education
- EDU 490 Classroom Management
- ** EDU 413 Tests and Measurements
- EDU 420 Orientation to Student Teaching
- EDU 480 Student Teaching: Elementary School

** Add 47 hours

TOTAL 47 hours

- **Prerequisite to all other education courses

Elementary Education majors must present an 18-24 hour minor in a content area commonly taught in grades K-8 in public schools in Arizona.

RECOMMENDED ELECTIVES FOR ELEMENTARY TEACHER CANDIDATES

- AE 303, 323 Art in the Elementary School
- or Art Media/Methods for the Elementary Grades
- Computer Science Elective
- EED 131 Early Childhood Education
- ETL 473 Children's Literature
- ETL 509 Adolescent Literature
- Geography Elective
- HLT 335 School Health Problems
- MED 381 Music in the Elementary Grades
- PE 323 Physical Education for Elementary Grades

DEGREE REQUIREMENTS — LEARNING DISABILITIES (Grades K-12) AND ELEMENTARY CERTIFICATION (Grades K-8)

REQUIREMENTS FOR A MAJOR IN SPECIAL EDUCATION (B.S. DEGREE)

- EDU 303 Foundations of Education
- EDU 315 Educational Psychology
- EDU 363 Instructional Media
- EED 323 Curriculum and Methods: Science
- EED 340 Emergent Language
- EED 343 Curriculum and Methods: Language Arts
- EED 403 Curriculum and Methods: Mathematics
- EED 433 Curriculum and Methods: Reading/Decoding
- EED 443 Reading Practicum in the Elementary School
- EED 463 Curriculum and Methods: Social Studies
- SPE 323 Orientation to the Exceptional Child
- SPE 331 Survey of Learning Disabilities
- SPE 363 Methods of Teaching Children with Learning Disabilities
- SPE 433 Diagnosis of Learning Needs of Exceptional Children
- Elective in Special Education
- EDU 490 Classroom Management
- ** EDU 413 Tests and Measurements
- EDU 420 Orientation to Student Teaching
- SPE 408 Student Teaching: Learning Disabilities
- EED 480 Student Teaching in the Elementary School

** Add 67 hours

A minor is required.

** Prerequisite to all other education courses

** Computer Science Elective — This sequence is available to Special Education majors only in the Fall and in December term of the Spring semester due to the 18 week teaching requirement. The Black courses 413 and 420 may be taken in the Spring as a prerequisite to the student teaching courses which would begin with the following Fall semester.

**REQUIREMENTS FOR A MAJOR IN SPECIAL EDUCATION (B.S. DEGREE)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDU 303 Foundations of Education</td>
<td>3</td>
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<tr>
<td>EDU 313 Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDU 365 Instructional Media</td>
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<td>EED 323 Curriculum and Methods: Science</td>
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<td>EED 340 Emergent Language</td>
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<td>EED 425 Curriculum and Methods: Language Arts</td>
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<td>EED 403 Curriculum and Methods: Mathematics</td>
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<td>EED 441 Reading Practicum in the Elementary School</td>
<td>2</td>
</tr>
<tr>
<td>EED 463 Curriculum and Methods: Social Studies</td>
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</tr>
<tr>
<td>SPE 325 Orientation to the Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>SPE 385 Survey of Emotional Handicaps</td>
<td>3</td>
</tr>
<tr>
<td>SPE 393 Methods of Teaching the Emotionally Handicapped Child</td>
<td>3</td>
</tr>
<tr>
<td>SPE 431 Diagnosis of Learning Needs of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Special Education</td>
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<tr>
<td>EED 410 Classroom Management</td>
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<tr>
<td><strong>EDU 413 Tests and Measurements</strong></td>
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<tr>
<td><strong>EDU 420 Orientation to Student Teaching</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>EDU 480 Student Teaching: Emotionally Handicapped</strong></td>
<td>8</td>
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<tr>
<td>EED 480 Student Teaching in the Elementary School</td>
<td>8</td>
</tr>
<tr>
<td>TOTAL</td>
<td>36</td>
</tr>
</tbody>
</table>

**FIFTH YEAR PROGRAM**

The Teacher Education Program has been extended to include a fifth year of preparation to meet current Arizona teacher certification requirements. Students who have previously earned a bachelor's degree from a regionally accredited institution are recommended for standard certification after successful completion of a fifth-year program of at least 40-47 semester hours of upper division work in appropriate professional education, academic preparation, and/or supervised student teaching experience. Policies and requirements for admission to the program are the same as those noted for degree candidates.

**GRADUATE CURRICULUM**

The courses in the M.Ed. program are planned to provide curricula for the certification of elementary teachers (grades K-8) and secondary teachers (grades 7-12) as well as advanced study. It is possible for the M.Ed. student to complete certification requirements within 12 to 15 months of full-time study and return the following year to complete the master's degree course work. It is the responsibility of the graduate student to enroll in the proper courses and follow the policies and procedures of the graduate program. An advisor in the College of Education is available for consultation; however, it is the responsibility of the graduate student to enroll in the proper courses and follow the policies and procedures of the graduate program.

The courses in the M.A. program are designed to provide advanced study in a specialized area of education. Course work is presently offered in the following areas:

1. Elementary Education
2. Gifted Education
3. Reading Education
4. *Teaching English As A Second Language

* Certifications Requirements for the Arizona Department of Education are included in these programs of study.

Graduate students who wish to specialize in an area commonly taught at the secondary level (grades 7-12) are encouraged to begin their program of study at Grand Canyon University as we continue to develop new programs. Other areas in developmental stages include English as a Second Language/Bilingual Education, Early Childhood Education.

**APPLICATION PROCEDURES FOR GRADUATE STUDIES**

**ELIGIBILITY**

Graduate students secure an admissions packet from the Graduate Office in the College of Education. Further clarification of the following requirements are contained in the admissions packet.

Master of Education (M.Ed.) candidates must submit to the Dean of the College of Education:

1. Graduate Application;
2. A passing score on the Basic Skills Component of the Arizona Teacher Proficiency Examination (APTE); and
3. A passing score on the Writing Proficiency Examination; and
4. A 2.5 cumulative GPA as well as a 2.5 GPA in the major area of desired certification: Any grade in the certifiable major area below a grade of “C” must be re-taken at Grand Canyon University. A certifiable major in secondary education is determined by the Arizona Department of Education as any course of study that is commonly taught in grades 7-12 in the public schools in Arizona;
5. Three references;
6. Official transcripts from a regionally accredited college or university.

Master of Arts in Education (M.A.) candidates must submit to the Dean of the College of Education:

1. Graduate Application;
2. Record of satisfactory performance on the Miller Analogies Test (MAT) and Graduate Record Examinations General Test (GRE);
3. A 2.8 cumulative GPA as well as a 2.8 GPA in the major area of certification;
4. Copy of current teaching certificate;
5. Three references, one of which must include a copy of the most recent teacher evaluation;
6. Official transcripts from a regionally accredited college or university.

**CANDIDACY**

Once the student is accepted into the graduate program, the candidate has eight years to complete the program of study. Additional course requirements may be imposed at the discretion of the graduate interview committee if the program extends beyond this statute of limitations. All graduate students must maintain a 3.0 GPA.

At the end of the program of study, the candidate will complete the course Research/
Writing Tutorial. The purpose of this course is to allow the candidate the opportunity to link theory with practice and to prepare an article for publication. Writing a thesis is an option in the graduate program.

**DEGREE REQUIREMENTS — MASTER OF EDUCATION (M.Ed.)**

**PROGRAM OF STUDY FOR ELEMENTARY CERTIFICATION (Grades K-8)**

**GENERAL EDUCATION PREREQUISITES FOR CERTIFICATION:**

- English: 6 hours
- Humanities and/or Speech: 3 hours
- History, Civ. or Geography: 6 hours
- Federal and Arizona Government: 3 hours
- General Psychology: 3 hours
- Child Psychology (Recommended): 3 hours
- Educational Psychology: 3 hours
- Lab Science: 4 hours
- Mathematics: 3 hours
- Tests and Measurements: 2 hours

**PROFESSIONAL PREPARATION REQUIREMENTS:**

- Complete prior to Certification — 42 hours
  - EDU 570 Philosophical/Social Issues: 3 hours
  - EDU 563 Instructional Media: 3 hours
  - SPE 323 Orientation to the Exceptional Child: 3 hours
  - EED 340 Emergent Language Arts: 2 hours
  - EED 343 Curriculum and Methods: 3 hours
  - EED 563 Curriculum and Methods: 5 hours
  - EDU 503 Curriculum and Methods: 3 hours
  - *EED 533 Curriculum and Methods: 4 hours
  - *EED 443 Reading: Practicum: 2 hours
  - EDU 430 Classroom Management: 3 hours
  - EDU 450 Orientation to Student Teaching: 2 hours
  - *EDU 480 Student Teaching: 8 hours
  - Complete after Certification — 18 hours
  - Approved Electives at the 500 level: 2 hours
  - EDU 571 Psychological Issues: 3 hours
  - EDU 586 Master Seminars: 3 hours
  - EDU 612 Curriculum Issues/Innovations: 3 hours
  - EDU 612 Educational Research: 2 hours
  - EDU 614 Research/Writing Tutorial: 2 hours
  - EDU 680, 699 Internship or Independent Study: 2 hours
  - TOTAL: 60 hours

**PROGRAM OF STUDY FOR SECONDARY CERTIFICATION (Grades 7-12)**

**GENERAL EDUCATION PREREQUISITES FOR CERTIFICATION:**

- English: 6 hours
- Humanities and/or Speech: 3 hours
- History, Civ. or Geography: 6 hours
- Federal and Arizona Government: 3 hours
- General Psychology: 3 hours
- Child Psychology (Recommended): 3 hours
- Educational Psychology: 3 hours
- Lab Science: 4 hours
- Mathematics: 3 hours
- Science or Mathematics: 4-5 hours
  - Test and Measurements: 2 hours

**PROFESSIONAL PREPARATION REQUIREMENTS:**

- Complete prior to Certification — 31 hours
  - EDU 570 Philosophical/Social Issues: 3 hours
  - EDU 363 Instructional Media: 2 hours
  - SPE 323 Orientation to the Exceptional Child: 3 hours
  - SED 442 Secondary Methods: 3 hours
  - *SED 462 Reading: Secondary School: 2 hours
  - *SED 462 Reading: Practicum Sec: 2 hours (incl. Decoding): 2 hours
  - EDU 430 Classroom Management: 3 hours
  - EED 480 Student Teaching: 8 hours
  - Complete after Certification — 22 hours
  - Approved Electives at the 500 level: 6 hours
  - EDU 571 Psychological Issues: 3 hours
  - EDU 598 Master Seminars: 3 hours
  - EDU 562 Curriculum Issues/Innovations: 3 hours
  - EDU 613 Educational Research: 3 hours
  - EDU 614 Research/Writing Tutorial: 2 hours
  - EDU 570 Psychological Issues: 3 hours
  - EDU 586 Master Seminars: 3 hours
  - EDU 612 Curriculum Issues/Innovations: 3 hours
  - EDU 613 Educational Research: 3 hours
  - EDU 614 Research/Writing Tutorial: 2 hours
  - GIFTED EDUCATION REQUIREMENTS:
    - SPE 500 The Gifted Child: 3 hours
    - SPE 515 Teaching the Gifted Student: 3 hours
    - SPE 520 Instructional Strategies in Gifted Education: 3 hours
    - SPE 525 Curriculum Development in Gifted Education: 3 hours
    - SPE 533 Diagnosis of Learning Needs of Exceptional Children: 3 hours
    - SPE 580 Internship in Gifted Education: 6 hours
  - TOTAL: 53 hours

**MASTER OF ARTS DEGREE REQUIREMENTS [M.A.]**

**PROGRAM OF STUDY FOR ELEMENTARY EDUCATION**

**PREREQUISITES:**

- Elementary Education Certification Admittance to M.A. Program

**CORE EDUCATION REQUIREMENTS:**

- EDU 570 Psychological/Social Issues: 3 hours
- EDU 571 Psychological Issues: 3 hours
- EDU 572 Psychological Issues: 3 hours
- EDU 586 Master Seminars: 3 hours
- EDU 612 Curriculum Issues/Innovations: 3 hours
- EDU 613 Educational Research: 3 hours
- EDU 614 Research/Writing Tutorial: 2 hours

**EDUCATION REQUIREMENTS:**

- ETL 439/539 Children's Literature or ETL 473/573 Children's Literature: 3 hours

**TOTAL: 38 hours**

* *Completion of the Arizona Department of Education Gifted Endorsement Certification (Grades K-12).*

**PROGRAM OF STUDY FOR TEACHING ENGLISH AS A SECOND LANGUAGE**

**PREREQUISITES:**

- Elementary or Secondary Certification
- Admittance to M.A. Program

**UNDERGRADUATE REQUIREMENTS:**

- Foreign Language 6 hours or passage of Arizona classroom proficiency exam

**CORE EDUCATION REQUIREMENTS:**

- EDU 570 Psychological/Social Issues: 3 hours
- EDU 571 Psychological Issues: 3 hours
- EDU 598 Master Seminars: 3 hours
- EDU 612 Curriculum Issues/Innovations: 3 hours
- EDU 613 Educational Research: 3 hours
- EDU 614 Research/Writing Tutorial: 2 hours

**ENGLISH AS A SECOND LANGUAGE REQUIREMENTS:**

- ESL 514 Inter-Cultural Communications: 3 hours
- ESL 520 Emergent Language and Beginning Linguistics: 3 hours
- ESL 522 English Language Teaching Foundations and Methodology: 3 hours
- ESL 530 Advanced Grammar for English Language Teaching: 3 hours
- ESL 560 Advanced Language Teaching Methodologies and Assessment: 3 hours
- ESL 611 Language Teaching Curriculum and Materials Design: 3 hours
- ESL 660 Internship in ESL or TESOL: 3 hours

**TOTAL: 38 hours**

* *Completion of the Arizona Department of Education English Language Endorsement Certification (Grades K-12).*

**PROGRAM OF STUDY FOR READING EDUCATION**

**PREREQUISITES:**

- Elementary, Secondary, or Special Education Certification
- Admittance to M.A. Program

**CORE EDUCATION REQUIREMENTS:**

- EDU 570 Psychological/Social Issues: 3 hours
- EDU 571 Psychological Issues: 3 hours
- EDU 598 Master Seminars: 3 hours
- EDU 612 Curriculum Issues/Innovations: 3 hours
- EDU 613 Educational Research: 3 hours
- EDU 614 Research/Writing Tutorial: 2 hours

**READING EDUCATION REQUIREMENTS:**

- ETL 439/539 Children's Literature or ETL 473/573 Children's Literature: 3 hours

**TOTAL: 38 hours**

* *Completion of the Arizona Department of Education Reading Endorsement Certification (Grades K-12).*

**EDUCATION**

**EDU READING AND LEARNING STRATEGIES 101 FOR COLLEGE SUCCESS**

Every session: 5 hours

Designed to reinforce and develop the reading/learning strategies needed for success in college courses. Emphasis is placed on comprehension, vocabulary development, writing process, study strategies, effective reading techniques, time management and test-taking techniques. Literature studies included.

**EDU READING AND LEARNING STRATEGIES 113 FOR COLLEGE SUCCESS**

Every session: 3 hours

See EDU 103 (above).
EDU FOUNDATIONS OF EDUCATION 303 Every semester/3 hours
A study of the historical, philosophical, and sociological influences which have shaped American education, the issues faced by educators today, and the challenges of the future which await persons now entering the teaching profession. The course is designed for students who have already committed themselves to a career in education or are exploring a career in education and includes a first phase observation in the K-12 classroom. This course should be taken during the sophomore year.
Prerequisite: SPC 113.

EDU EDUCATIONAL PSYCHOLOGY 313 Every semester and every Summer/3 hours
A carefully organized study of the theories and principles of psychology which have influenced learning and teaching techniques. Included are such topics as child development, learning, motivation, and evaluation.
Prerequisites: PST 101 and PST 113 or PST 171.

EDU USING COMPUTERS IN THE 355 CLASSROOM January Term or on demand/2-3 hours
This course will provide a basic knowledge of computers as related to education: How they work, what they can do for us, and current issues in all teaching disciplines. It will also give practical experience enabling the student to use the computer as a tool in teaching.

EDU INSTRUCTIONAL MEDIA 363 Spring or Summer/2-3 hours
Also MIN 363. A survey of the role of audio-visual aids projected and non-projected, in the teaching and learning of communication, with emphasis on the selection, preparation, evaluation, and utilization of such materials and equipment.

EDU DEPARTMENTAL TUTORING 396 Every semester/2 hours
Description see ACC 396 on page 112.

EDU TESTS AND MEASUREMENTS 413 Every semester and every Summer/2 hours
Deals with the philosophy of testing, the construction of tests, and the actual administration and interpretation of tests. Examination of sample tests. Students select either high school or elementary tests for study and engage in test construction in either field.
Prerequisite: EED 143, 463 or EED 446, 448, and admittance to the teacher preparation program and Senior status.

EDU ORIENTATION TO STUDENT 420 TEACHING Every semester/2 hours
Describes the students who are enrolled in student teaching, to help prepare such students for their classroom experiences. Administrators and supervisors from public schools are invited to participate in this orientation as well as other professional personnel. Additional information is given by the faculty of the College of Education.
Prerequisite: All required courses for certification except EED 471, SED 443, and student teaching.

EDU CLASSROOM MANAGEMENT 430 Every Summer Term and Summer/3 hours
Describes the procedures and techniques that are necessary to learn teaching opportunities involved in the successful management of a learning environ-
ment. Major emphasis is given to the establishment of a realistic discipline plan.
Prerequisite: Admission to the teacher preparation program and Senior status.

EDU PHILOSOPHICAL/SOCIAL ISSUES 570 IN EDUCATION Every semester and every Summer/3 hours
Designed to acquaint the student with the philosophical and social issues upon which educational theories and practices are constructed and the societal issues and problems that are involved in the education system. Prerequisite: Bachelor’s degree.

EDU PSYCHOLOGICAL ISSUES 571 Every semester and every Summer/3 hours
Psychological topics will focus on classical and modern theories of learning. Inherent in the course is a study of the most recent issues in educational psychology concerning the learner, the learning process, the learning situation, and research in educational psychology. Case studies drawn from realistic classroom situations will provide an opportunity for the practitioner to test the applicability of the theories.
Prerequisites: Bachelor’s degree and senior standing.

EDU CURRICULUM ISSUES 612 AND INNOVATIONS Every spring and every summer/3 hours
This course will look beyond the technological, or measured curriculum. It will address many important goals for students such as learning how to learn, problem solving and functioning effectively and humanly in a pluralistic society. Alternative approaches to curriculum will be investigated.
Prerequisites: SED 443 or 543, EED 448, and acceptance to the teacher preparation program.

EDU EDUCATIONAL RESEARCH 613 Every semester and every Summer on demand/3 hours
Educational research and design specifically developed to offer an appreciation of educational research. This course will examine approaches to research as well as allow students to produce their own research project.
Prerequisites: Admission to the M.Ed. or M.A. program and EED 413.

EDU RESEARCH AND WRITING TUTORIAL 614 Every semester and every Summer on demand/2 hours
Incorporating “active learning” principles within a theoretical context will be the essence of the course. The practical component of the field will have the opportunity to explore the various facets of communicating educational research; implementing the research proposal of EUD 613 and submit a manuscript for a publication or formal presentation. There will be an emphasis on hours to publish research work or curriculum materials.
Prerequisites: Admission to the M.Ed. or M.A. program and EED 613.

EDU INTERNSHIP 580 Every semester and every Summer on demand/1-2 hours
This course is designed for the student to spend 45-90 clock hours in a K-12 classroom setting and/or college setting. The student will demonstrate competency at a master teacher level. Supervision will be provided by an administrator, College of Education, cooperating teacher faculty and/or peer teacher.
Prerequisite: Admission to the M.Ed. or M.A. program.

EDU MASTER SEMINARS 598 Every semester and every Summer on demand/1 hour
The Master Seminar provides a forum for scholarly exchange for students at the M.Ed. or M.A. level. This exchange includes student presentations, panel discussions, and/or mini-courses deemed as necessary for the well-rounded and prepared Master’s candidate. Must be approved by advisor and/or other courses that require seminar presentations. A minimum of three Masters courses are required for both the M.Ed. and M.A. program.
Prerequisite: Bachelor’s degree.

EDU INDEPENDENT STUDY 599/599 Every semester and every Summer on demand/1-2 hours
This course allows participants to design their own course objectives to meet individually needed regard to curriculum design in a K-12 classroom.
Prerequisite: Admission to the M.Ed. or M.A. program.

TUT VOLUNTEER TUTORING Every semester/30 credits
No course description see TUT 300/400 on page 112.

EED ELEMENTARY EDUCATION 403 ELEMENTARY EDUCATION 403 Every spring or summer/3 hours
The student is involved in the instruction of programs for the individual child to teach the theory and practice of elementary school instruction in the teaching of games in the classroom, manipulative materials, and mathematics curriculum in the elementary school are examined. Prerequisites: EED 803, EUI 313, EIE 325, MAT 113, Senior status and admittance to the teacher preparation program. Six hours of math course work is recommended.

EED CURRICULUM AND METHODS: SCIENCE 423 Every semester and every Summer/3 hours
Designed to acquaint the elementary teacher with the curriculum and the effective techniques for the teaching of science. The student is involved in planning instructional units, employing science programs that are currently being used in the public schools, and using instructional models.
Prerequisites: EUC 303, a laboratory science course, EUI 313 and admittance to the teacher education program.

EED EMERGENT LANGUAGE 430 Every semester and every Summer/2 hours
Participants who are enrolled in an emergent language program and early linguistic development. Emphasis will be placed on oral and written language development and the implications of this development on language, learning, curriculum, transinstitutional grammars and patterns of communication among cultures.
Prerequisite: EUC 803.

EED CURRICULUM AND METHODS: LANGUAGE ARTS 434 Every semester and every Summer/3 hours
This course is designed to familiarize student teachers with emergent language environment and early language arts. Students will be placed on oral and written language development and the implications of this development on language, learning, curriculum, transinstitutional grammars and patterns of communication among cultures.
Prerequisite: EUC 803.

EED CURRICULUM AND METHODS: SOCIAL STUDIES 435 Every semester and every Summer/3 hours
This course is designed to assist the elementary teacher with methods of instruction of such social studies units as classroom, language and general teaching activities. Laboratory experiences will include multicultural experiences for elementary students.
Prerequisites: EUI 303, EUI 325, EED 440, EED 443, HIS 101, HIS 103, and admittance to the teacher preparation program.
READING EDUCATION

RDG 503 FOUNDATIONS IN READING
This course is designed to provide an in-depth view of reading instruction and its foundations with an understanding of the linguistic and cognitive bases for the reading process. Prerequisites: Elementary, Secondary, or Special Education Certificate, EDU 343/353, or 452/452.

RDG 504 INNOVATIVE READING PROGRAMS
This course critically examines current new practices and research trends in the field of Reading Education. A minimum of three areas of current promise and/or concern for the practitioner will be addressed each semester. Prerequisites: Elementary, Secondary, or Special Education Certificate, EDU 431/331, and EDU 435/352.

DIAGNOSIS AND REMEDIATION
505 OF READING PROBLEMS
Every Spring/3 hours
The ability to measure a reader's reading comprehension, logical language production, ability to identify the morphology of words and sentences, linguistic style, language, word recognition and word identification are all important components of this course. Prescribing, planning and implementing measures to remedy deficiencies in one or more of these areas will be a part of the course. Prerequisites: EDU 333, EDU 340, 442, and admission to M.Ed. Program.

SECONDARY EDUCATION

SED 396 DEPARTMENTAL TUTORING
For course description see ACC 396 on page 112.

SED 443 SECONDARY METHODS
443 Every summer/3 hours
Designed to help teachers and prospective teachers of young adults to find their own teaching style and recognize and develop their strengths. The goal is to guide students in making appropriate decisions about all aspects of the teaching act. Emphasis is given to teaching strategies that are both student-centered and classroom-centered. Students will be encouraged to develop a problem-solving and active participation. Prerequisites: EDU 201, 202, 203, and EDC 431/331, and EDC 435/352.

SED 444 DEVELOPMENT
Every Summer/3 hours
A study of secondary school curriculum development. Consideration is also given to developmental curriculum for adult learners as needed for Human Resources Development Students. Major emphasis is given to planning instructional objectives, lesson planning and developing a model curriculum. Prerequisites: EDU 303, EDU 410, 442 and admission to the teacher preparation program or human resources development program. Human Resources Development majors take this concurrently with EDC 303.

SED 452 READING IN THE SECONDARY SCHOOL
Every Summer/3 hours
This course is designed for secondary and upper elementary teachers to become aware of the reading instructional skills needed to be successful in content classes. Prerequisites: EDU 333, EDU 433 and 435/352, and EDC 437.

SED 453 RESEARCH IN READING
604 Every Spring/3 hours
This course will take an in-depth look at reading research and how it applies to the classroom. Prerequisites: Elementary, Secondary, or Special Education Certificate, EDU 431/331, and EDU 435/352.

SED 455 INTERSHIP IN READING
This course is designed for the student to spend 130 clock hours in a K-12 school or district-wide setting. The student will be involved with reading program development and supervision, and must demonstrate competence at a master teacher level. Supervision and instruction will be provided by the College of Education reading faculty and/or cooperating teachers in the field. Prerequisites: Elementary, Secondary, or Special Education Certificate, EDU 431/331, and EDU 435/352.

BED 403 EMOTIONALLY HANDICAPPED CHILDREN
Every Fall/3 hours
A course on the education of emotionally handicapped children. Students will learn about the nature of emotional disturbance and how it shapes the way they think and behave. A teaching philosophy will be defined from the discipline of psychology and the way students learn. Application to the classroom will be an integral part of the course. Prerequisites: EDU 431/331, Elementary, Secondary, or Special Education Certificate.

BED 404 STUDENT TEACHING: SECONDARY 480 SCHOOL
Every summer/8 hours
For course description see ACC 480 on page 112.

BED 405 STUDENT TEACHING SPECIAL EDUCATION
Every summer/8 hours
A practicum course designed to give the student teacher experience in teaching children with learning disabilities. All-day assignments for two weeks in an approved school. Prerequisites: Required courses for special education certificate, a 2.5 GPA, and admission to the teacher education program. Credit only. Total is one grade is given.

BED 406 SECONDARY CURRICULUM
Every summer/3 hours
Various orientations to curriculum and the development will be investigated. Emphasis is given to planning instructional objectives. Prerequisites: EDU 431/331, Special Education Certificate and EDC 303, EDU 410, 442, and admission to the M.Ed. Program.

BED 455 READING IN THE SECONDARY SCHOOL
552 Every Summer/3 hours
This course is designed to help secondary teachers become aware of the reading instructional needs of high school students. Investigation into secondary reading programs and the design of a program that integrates content and reading is also a component of the course. Prerequisites: EDC 303, EDU 333, EDC 442, and admission to the M.Ed. Program.

SPECIAL EDUCATION

SPE 323 ORIENTATION TO THE EXCEPTIONAL CHILD
Every summer/3 hours
Introduction to the various categories of special education, their characteristics, and how they influence the child with learning disabilities, encompassing the many individual characteristics being applied to education of the special student. Prerequisites: SPE 323.

SPE 363 WITH LEARNING DISABILITIES
Every Fall/3 hours
Emphasis on the methods of remediation learning deficiencies which affect perception, cognition, and expression. Emphasis on methods for planning and implementing instructional programs. Prerequisites: SPE 323 and admission to the teacher preparation program.

SPE 442 SURVEY OF EDUCATING CHILDREN WITH EMOTIONAL HANDICAPS
Every Summer/3 hours
A general study of characteristics of emotionally handicapped and socially maladjusted individuals and educational programs available for them. Prerequisites: SPE 323.

SPE 363 METHODS OF TEACHING THE EMOTIONALLY HANDICAPPED CHILD
Every Spring/3 hour
Methods and techniques of planning and implementing instructional programs for children with emotional handicaps. Prerequisites: SPE 323 and admission to the teacher preparation program.

SPE 396 DEPARTMENTAL TUTORING
Every summer/2 hours
For course description see ACC 396 on page 112.

SPE 400 STUDENT TEACHING IN SPECIAL EDUCATION LEARNING DISABILITIES
Every spring/8 hours
A practicum course designed to give the student teacher experience in teaching children with learning disabilities. All-day assignments for two weeks in an approved school. Prerequisites: Required courses for special education certificate, a 2.5 GPA, and admission to the teacher education program. Credit only. Total is one grade is given.

SPE 418 STUDENT TEACHING IN SPECIAL EDUCATION EMOTIONALLY HANDICAPPED
Every summer/8 hours
A practicum course designed to give the student teacher experience in teaching children with emotional handicaps. All-day assignments for two weeks in an approved school. Prerequisites: Required courses for special education certificate, a 2.5 GPA, and admission to the teacher education program. Credit only. Total is one grade is given.
TEACHING ENGLISH AS A SECOND LANGUAGE

ESL INTER-CULTURAL COMMUNICATIONS
514 Every Summer on demand/2 hours
This course seeks to provide a framework upon which individuals can build a culturally appropriate approach to crosscultural exchange. The course will provide students with skills for understanding people of other cultures through the examination of demographics of a targeted culture and population.

ESL EMERGENT LANGUAGE AND
520 BEGINNING LINGUISTICS
Every semester on demand/3 hours
This course is designed to familiarize student with emergent language and early linguistic development. Emphasis will be placed on oral and written language development and the implications of this development on language, learning, curriculum, transformational grammar and patterns of communication among cultures.

ESL ENGLISH LANGUAGE TEACHING
523 FOUNDATIONS AND METHODOLOGIES
Every Summer on demand/3 hours
Through this course the historical, legal, theoretical, and sociological foundations of programs of instruction for non-English language background students are presented. The study of models, prototyes and methodologies for ESL instruction is included.

ESL ADVANCED GRAMMAR FOR ENGLISH
530 LANGUAGE TEACHING
Every Summer on demand/3 hours
A descriptive grammar of English, this course is specifically designed to aid teacher's understanding of the nature of language and the processes of language use.

ESL INTERNSHIP IN ESL OR TESOL
580 / 581 Every Summer on demand/3 hours
The student is assigned to an approved, experienced teacher or coordinator of program(s) for ESL or TESOL for four weeks. The internship is individualized and arrangements can be based on student need. Prerequisite: ESL 523.

ESL ADVANCED LANGUAGE TEACHING
610 METHODOLOGIES AND ASSESSMENT
Fall on demand/3 hours
A thorough examination of available methodologies, underlying philosophies, and assessment procedures. Included are lessons in teaching the four recognized skill areas (listening, speaking, reading, writing) within the content areas and the use of standardized tests. Prerequisite: ESL 523.

ESL LANGUAGE TEACHING CURRICULUM
AND MATERIALS DESIGN
611 Fall on demand/3 hours
An integration of general school curriculum, materials, and the specific English language teaching goals and actual design and rendering of instructional materials. Prerequisite: ESL 523.
**COLLEGE DESCRIPTION**

The College of Performing Arts has available to students the following degrees, as well as a wide variety of electives:

**Bachelor of Arts**
- Instrumental Performance
- Piano/Organ Performance
- Theatre/Speech
- Vocal Performance

**Bachelor of Music**
- Church Music
- Piano Performance
- Vocal Performance

**Bachelor of Science**
- Music Education
  - Certification is required
- Theatre/Drama

**The following minors are also offered:**
- Music
- Music Education
- Speech
- Theatre

Specific policies and procedures for music majors and minors are listed in the **Music Student Handbook**, which is available in the **College of Performing Arts** office. Majors and minors are responsible for meeting these requirements.

The Arts-in-Residence program combines our full-time and part-time faculty provide quality teaching throughout the entire College. The College of Performing Arts is a candidate for accreditation in the National Association of Schools of Music and is currently following the guidelines set forth by NASM.

The College is dedicated to developing the musicianship of each student through excellence in the classroom and all performing areas. Students from the entire university join in music majors and minors in performing in choirs, wind ensembles, jazz band, chamber ensembles, chamber orchestra, handbells, guitar ensemble and open and Broadway musicals each year.

Recitals and concerts by regular performing groups, faculty and artists-in-residence provide the university community and the Phoenix area with opportunities to hear some of the finest music being performed today.

Music scholarships are available by audition. The College of Performing Arts endeavors to give its Theatre and Speech students a complete education. To that end, the theatre and speech majors and minors as well as the theatre and drama majors and minors have been developed to allow the student a balance between academics and the practical application of academics through performance.

The College of Performing Arts suggests that a major or minor in Theatre and Speech or Theatre and Drama would be desirable for the student planning a career, not only in Theatre/Speech or Theatre/Drama, but also in the ministry, religious education, secondary education, law, social work, or public relations. The Theatre Area, in cooperation with the Music Area, produces the **Ethington Theatre Series** which presents five major productions annually; auditions for these productions are open to the entire student body. The Speech Area also supports a speech team that competes in contests each year and performs publicly on campus.

Word Power, Inc. is dedicated to sharing and spreading Christ’s love through dramatic presentations and creative worship. Participation is through audition. Theatre of Speech scholarships are available by audition.

**DEGREE REQUIREMENTS - MUSIC**

**REQUIREMENTS FOR A MAJOR IN APPLIED MUSIC (B.A. DEGREE)**

<table>
<thead>
<tr>
<th>Core Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP Major Applied Instrument or Voice</td>
<td>8 hours</td>
</tr>
<tr>
<td>MAP Applied Piano</td>
<td>8 hours</td>
</tr>
<tr>
<td>*MEN Major Ensemble (one per semester)</td>
<td>7 hours</td>
</tr>
<tr>
<td>MUS 009 Recital Attendance (8 semesters)</td>
<td>0 hours</td>
</tr>
<tr>
<td>MUS 191, 192, 291, 292 Theory</td>
<td>16 hours</td>
</tr>
<tr>
<td>MUS 371, 372 Music History I, II</td>
<td>12 hours</td>
</tr>
<tr>
<td>MUS 381 Conducting and Analysis</td>
<td>4 hours</td>
</tr>
<tr>
<td>MUS 392 Form and Analysis</td>
<td>3 hours</td>
</tr>
<tr>
<td><strong>Piano Proficiency</strong></td>
<td>0 hours</td>
</tr>
<tr>
<td><strong>Total Core</strong></td>
<td>46 hours</td>
</tr>
</tbody>
</table>

**ADDITIONAL REQUIREMENTS (SELECT ONE)**

1. **Classical Guitar**
   - MAP Applied Classical Guitar | 6 hours |
   - MAP Applied Classical Guitar | 2 hours |
   - MAP Applied Piano | 1 hour |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |

2. **Instrumental**
   - MAP Major Applied Instrument | 8 hours |
   - MAP Applied Piano | 1 hour |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |
   - MUS 391 Counterpoint | 1 hour |
   - MUS 481 Vocal Methods and Pedagogy | 2 hours |
   - **Total Emphasis** | 13 hours |
   - **COMBINED TOTALS** | 59 hours |

3. **Organ**
   - MAP Applied Organ | 8 hours |
   - MAP 390 Junior Recital | 0 hours |
   - MUS 490 Senior Recital | 0 hours |
   - MUS 391 Counterpoint | 2 hours |
   - MUS 421 Organ Literature & Accompaniment | 4 hours |
   - MUS 429 Studio Accompaniment | 2 hours |
   - **Total Emphasis** | 14 hours |
   - **COMBINED TOTALS** | 60 hours |

4. **Piano**
   - MAP Applied Piano | 8 hours |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |
   - MUS 373 Piano Literature | 2 hours |
   - MUS 373 Piano Literature | 2 hours |
   - MUS 425 Pedagogy | 2 hours |
   - MUS 426 Pedagogy | 2 hours |
   - MUS 429 Studio Accompaniment | 1 hour |
   - **Total Emphasis** | 19 hours |
   - **COMBINED TOTALS** | 65 hours |

5. **Studio Guitar**
   - MAP Applied Studio Guitar | 4 hours |
   - MAP Applied Classical Guitar | 4 hours |
   - MAP 390 Junior Recital | 0 hours |
   - **Total Core** | 44 hours |

6. **Vocal**
   - MAP Applied Voice | 8 hours |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |
   - MUS 111, 112, 211 It, Pr, Gen Dist | 3 hours |
   - MUS 391 Counterpoint | 2 hours |
   - MUS 375, 376 Song Literature I, II | 4 hours |
   - MUS 481 Vocal Methods and Pedagogy | 2 hours |
   - **Total Emphasis** | 19 hours |
   - **COMBINED TOTALS** | 62 hours |

**REQUIREMENTS FOR A MINOR IN MUSIC**

- MAP Major Applied Instrument or Voice | 4 hours |
- MAP Secondary Applied Piano | 3 hours |
- MEN Ensemble (one per semester) | 3 hours |
- MUS 429 Studio Accompanying | 3 hours |
- MUS 009 Recital Attendance (4 semesters) | 0 hours |
- MUS 111, 112, 211 It, Pr, Gen Dist (Voice Emphasis Only) | 3 hours |
- MUS 191 Elementary Theory I | 4 hours |
- MUS 281, 381 Fundamentals of Conducting | 2 hours |
- MUS 371, 372 Music History I or II | 3 hours |
- **TOTAL** | 19 (22) hours |

**RECOMMENDED ELECTIVES**

- MED 232, 241, 251, 261 | 8 hours |
- MUS 401 Theory Ensembles | 2 hours |
- MUS 481 Vocal Methods and Pedagogy | 2 hours |

**REQUIREMENTS FOR A BACHELOR OF MUSIC - CHURCH MUSIC (B.A. DEGREE) (NO MINOR REQUIRED)**

<table>
<thead>
<tr>
<th>Core Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP Major Applied Instrument or Voice</td>
<td>8 hours</td>
</tr>
<tr>
<td>MAP Applied Piano</td>
<td>1 hour</td>
</tr>
<tr>
<td>*MEN Major Ensemble (one per semester)</td>
<td>7 hours</td>
</tr>
<tr>
<td>MUS 009 Recital Attendance (8 semesters)</td>
<td>0 hours</td>
</tr>
<tr>
<td>MUS 191, 192, 291, 292 Theory</td>
<td>16 hours</td>
</tr>
<tr>
<td>MUS 371, 372 Music History I, II</td>
<td>6 hours</td>
</tr>
<tr>
<td>MUS 381 Conducting and Analysis</td>
<td>4 hours</td>
</tr>
<tr>
<td><strong>Piano Proficiency</strong></td>
<td>0 hours</td>
</tr>
<tr>
<td><strong>Total Core</strong></td>
<td>34 hours</td>
</tr>
</tbody>
</table>

**ADDITIONAL REQUIREMENTS (SELECT ONE)**

1. **Classical Guitar**
   - MAP Applied Classical Guitar | 6 hours |
   - MAP Applied Classical Guitar | 2 hours |
   - MAP Applied Piano | 1 hour |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |

2. **Piano**
   - MAP Applied Piano | 8 hours |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |
   - MUS 373 Piano Literature | 2 hours |
   - MUS 373 Piano Literature | 2 hours |
   - MUS 425 Pedagogy | 2 hours |
   - MUS 426 Pedagogy | 2 hours |
   - MUS 429 Studio Accompaniment | 1 hour |
   - **Total Emphasis** | 19 hours |
   - **COMBINED TOTALS** | 65 hours |

3. **Studio Guitar**
   - MAP Applied Studio Guitar | 4 hours |
   - MAP Applied Classical Guitar | 4 hours |
   - MAP 390 Junior Recital | 0 hours |
   - **Total Core** | 44 hours |

**ADDITIONAL REQUIREMENTS (SELECT ONE)**

1. **Classical Guitar**
   - MAP Applied Classical Guitar | 6 hours |
   - MAP Applied Classical Guitar | 2 hours |
   - MAP Applied Piano | 1 hour |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |

2. **Piano**
   - MAP Applied Piano | 8 hours |
   - MAP 390 Junior Recital | 0 hours |
   - MAP 490 Senior Recital | 0 hours |
   - MUS 373 Piano Literature | 2 hours |
   - MUS 373 Piano Literature | 2 hours |
   - MUS 425 Pedagogy | 2 hours |
   - MUS 426 Pedagogy | 2 hours |
   - MUS 429 Studio Accompaniment | 1 hour |
   - **Total Emphasis** | 19 hours |
   - **COMBINED TOTALS** | 65 hours |

3. **Studio Guitar**
   - MAP Applied Studio Guitar | 4 hours |
   - MAP Applied Classical Guitar | 4 hours |
   - MAP 390 Junior Recital | 0 hours |
   - **Total Core** | 44 hours |
### Music Education Core

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credits</th>
<th>Classroom Hours</th>
<th>Laboratory Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 219 Open Workshop</td>
<td>3 hours</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>MUS 371, 372, Music History I, II</td>
<td>6 hours</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MUS 375, 376 Song Literature I, II</td>
<td>6 hours</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MUS 381 Conducting I</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 391 Conducting II</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 392 Form &amp; Analysis</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 481 Vocal Methods &amp; Pedagogy</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
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</tbody>
</table>

**TOTAL** 11 hours

### ADDITIONAL REQUIREMENTS (SELECT ONE)

1. **Choral Conducting**
   - Major Applied | 4 hours |
   - Major Secondary (Inst & Voic Majors): Piano, Keyboard, Major Voice | 2 hours |
   - Applied Voice | 4 hours |
   - Instrumental Majors Only | 2 hours |
   - MUS 380 Junior Recital | 1 hour |
   - MUS 389 Conducting Seminar | 3 hours |
   - MUS 405 Conducting Practicum | 1 hour |
   - MUS 481 Vocal Methods & Pedagogy | 2 hours |

**Total Hours** 17-19

### REQUIREMENTS FOR A BACHELOR OF MUSIC - VOCAL PERFORMANCE (B.M. DEGREE)

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credits</th>
<th>Classroom Hours</th>
<th>Laboratory Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 219 Open Workshop</td>
<td>3 hours</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>MUS 371, 372, Music History I, II</td>
<td>6 hours</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MUS 375, 376 Song Literature I, II</td>
<td>6 hours</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MUS 381 Conducting I</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 391 Conducting II</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 392 Form &amp; Analysis</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 481 Vocal Methods &amp; Pedagogy</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
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</tbody>
</table>

**Total Hours** 60-66

### REQUIREMENTS FOR A MAJOR IN MUSIC EDUCATION (B.M. DEGREE) - CERTIFICATION REQUIRED (NO MINOR REQUIRED)

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credits</th>
<th>Classroom Hours</th>
<th>Laboratory Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 219 Open Workshop</td>
<td>3 hours</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>MUS 371, 372, Music History I, II</td>
<td>6 hours</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MUS 375, 376 Song Literature I, II</td>
<td>6 hours</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MUS 381 Conducting I</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 391 Conducting II</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 392 Form &amp; Analysis</td>
<td>2 hours</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>MUS 481 Vocal Methods &amp; Pedagogy</td>
<td>2 hours</td>
<td>8</td>
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</tr>
<tr>
<td><strong>Total Core</strong></td>
<td>45 hours</td>
<td>180</td>
<td>0</td>
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</tbody>
</table>

**TOTAL 111-122**

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*All music majors must complete 7 semesters of ensemble participation according to the following (one semester per year): Additional hours beyond the 5 may be taken for electives or electives.*
REQUIREMENTS FOR A MAJOR IN THEATRE/DRAMA (B.A./DEGREE)

TRE 120 Intro to the Theatre 3 hours
TRE 140, 140a Stagecraft 3 hours
TRE 150 Acting I 3 hours
TRE 241, 270 Stage Movement or Acting III 3 hours
TRE 242, 270 Stage Movement or Acting III 3 hours
TRE 300 Theatre Participation 1 hour
TRE 340 Scene Design 3 hours
TRE 346 Costume Design 3 hours
TRE 370 Theatre History I 3 hours
TRE 371 Theatre History II 3 hours
TRE 375 Dramatic Literature I 3 hours
TRE 376 Dramatic Literature II 3 hours
TRE 460 Theatre Participation 1 hour
TRE 480 Stage Lighting 3 hours
TRE 498 Stage Direction 3 hours

TOTAL 45 hours

APPLIED MUSIC

All applied music courses are designed to be repeated once. Instructor’s approval is necessary for all enrollments. See Music Student Handbook.

MAP BASIC PIANO 109 Every semester/1 hour
Private instruction for the non-music major with no previous piano training. A jury examination is not required. May be repeated to a maximum of four hours, but does not count toward a music major or minor.

MAP APPLIED VOICE 129 Every semester/1-4 hours
A study of vocal technique, including fundamentals of voice production, principles of breathing, study of vowels, and essentials of tone production. Instruction includes vocalizing, phrasing, tone color, diction, style and interpretation of standard vocal repertoire.

MAP APPLIED VOICE 219 Every semester/1-4 hours
Continuation of MAP 119. Prerequisite: MAP 119.

MAP APPLIED VOICE 319 Every semester/1-4 hours

MAP APPLIED VOICE 419 Every semester/1-4 hours
Continuation of MAP 319. Designed to work toward Senior Recital. Prerequisites: MAP 319 and Senior standing.

MAP APPLIED THEORY 389 Every semester/1 hour
Private instruction in composition. Designed to provide background for the production of senior composition. Three semester hours are required.

MAP APPLIED THEORY 489 Every semester/1 hour
Continuation of MAP 389. Three semester hours required.

MAP APPLIED ORGAN 129 Every semester/1-2 hours
Private instruction in the use of organ technique, including hymn and service playing. Repertoire includes the beginning of a progressive study of the works of Bach, Mendelssohn, Dupre, Franck, Brahms, Rehob., Vienne and modern composers.

Attention is also given to accomplishment for solos, choral works and recital playing.

MAP APPLIED ORGAN 229 Every semester/1-2 hours
Continuation of MAP 129. Prerequisite: MAP 129.

MAP APPLIED ORGAN 329 Every semester/1-2 hours
Continuation of MAP 229. Designed to prepare for a Junior Recital. Prerequisites: MAP 229 and Junior standing.

MAP APPLIED ORGAN 429 Every semester/1-2 hours
Continuation of MAP 329. Designed to prepare for a Senior Recital. Prerequisites: MAP 329 and Senior standing.

MAP APPLIED PIANO 129 Every semester/1-4 hours
Private instruction in the study of piano technique, including major and minor scales in octaves, scales in thirds, sixths and triads, broken chord exercises and arpeggios in variations. Literature to be studied over a progressive of semesters includes works by J.S. Bach, Mozart, Beethoven, Chopin, Liszt, Delafield, Prokofiev and other outstanding composers.

MAP APPLIED PIANO 229 Every semester/1-2 hours
Continuation of MAP 129. Prerequisite: MAP 129.

MAP APPLIED PIANO 329 Every semester/1-2 hours
Continuation of MAP 229. Designed to work toward a Junior Recital. Prerequisites: MAP 229 and Junior standing.

MAP APPLIED PIANO 429 Every semester/1-2 hours
Continuation of MAP 329. Designed to work toward a Senior Recital. Prerequisites: MAP 329 and Senior standing.

MAP APPLIED WOODWINDS 139 Every semester/1-2 hours
Private instruction in the woodwind instrument, study of fundamentals of tone production, scales and technique for playing the instrument of the student's choice. Solo selections are studied from recognized composers.

MAP APPLIED WOODWINDS 239 Every semester/1-2 hours
Continuation of MAP 139. Prerequisite: MAP 139.

MAP APPLIED WOODWINDS 339 Every semester/1-2 hours
Continuation of MAP 239. Designed to prepare for a Junior Recital. Prerequisites: MAP 239 and Junior standing.

MAP APPLIED WOODWINDS 439 Every semester/1-2 hours
Continuation of MAP 339. Designed to prepare for a Senior Recital. Prerequisites: MAP 339 and Senior standing.

MAP APPLIED BRASS 149 Every semester/1-2 hours
Private instruction in a brass instrument of the student's choice. Same format as MAP 139 (above).

MAP APPLIED BRASS 249 Every semester/1-2 hours
Continuation of MAP 149. Prerequisite: MAP 149.
MUSIC EDUCATION

MED WOODWIND INSTRUMENT CLASS 232 Every Spring/1 hour
A practical study of the high and low woodwind instruments. The student learns to play, care for, and teach each instrument. Prerequisite: Sophomore standing.

MED BRASS INSTRUMENT CLASS 241 Every Fall/1 hour
A practical study of the high and low brass instruments. The student learns to play, care for, and teach each instrument. Prerequisite: Sophomore standing.

MED PERCUSSION INSTRUMENT CLASS 251 Every Fall/1 hour
Same format as MED 241, except percussion instruments. Prerequisite: Sophomore standing.

MED STRING INSTRUMENT CLASS 262 Every Spring/1 hour
A practical study of the high and low string instruments. The student learns to play, care for, and teach each instrument. Prerequisite: Sophomore standing.

MED INSTRUMENTAL MUSIC ORGANIZATION

MUSIC IN THE ELEMENTARY GRADES 381 Every Fall/1 hour
A study and demonstration of methods and materials for elementary grades. A study is made of problems associated with each grade level. Written and oral plans are prepared. Visits are made to observe actual teaching situations. Prerequisite: MUS 292 or instructor's approval.

MED MUSIC IN THE JUNIOR AND 382 SENIOR HIGH SCHOOL
Every Spring/1 hour
A study of methods for developing and conducting the music program in junior and senior high schools, including the organization of choirs and glee clubs, the clarification of voices, the development of music appreciation, the selection of music literature, etc. Prerequisites: MUS 292, 381, or instructor's approval.

MED DEPARTMENTAL TUTORING 396 Every Spring/1 hour
For course description see ACC 396 on page 112.

MED INSTRUMENTAL LITERATURE 442 & PEDAGOGY
Every Fall/2 hours
Study of outstanding literature (secular and sacred) for Junior and Senior high school band, orchestral, stage band, jazz ensemble, and choir arrangements. Special rehearsal skills and interpretation are emphasized. Prerequisites: Junior standing and MUS 292.
MUSIC ENSEMBLES

MEN UNIVERSITY CHOIR
109 Every semester/1 hour
Non-auditioned ensemble open to all students of the university. All vocal majors are required to audition. The purpose of this ensemble is for the performance of large choral works with at least one major performance each semester. Two rehearsals per week. Prerequisite: Instructor's approval.

MEN'S CHORUS
199 Every semester/1 hour
Non-auditioned women's ensemble open to all interested singers (required for Women's vocal music majors). General rehearsal throughout the semester. Performance of a wide variety of treble literature from all periods of music history. Prerequisite: Instructor's approval.

MEN'S CANYON SINGERS
102 Every semester/1 hour
Select auditioned ensemble of 8-15 voices which perform various works of music by the great composers throughout the ages. The performance is selected from the very newest and most traditional repertoire.

MEN'S SMALL JAZZ ENSEMBLE
129 Every semester/1 hour
A performing ensemble designed to give the student experience performing Jazz material in a small ensemble setting.

MEN'S WIND ENSEMBLE
139 Every semester/1 hour
The Wind Ensemble is made up of Music majors, minors and students from other disciplines. The musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process. The Wind Ensemble performs non-music majors and minors and vocal students throughout the college campus. The literature performed is selected from both the finest contemporary and traditional repertoire.

MEN'S JAZZ BAND
146 Every semester/1 hour
Performance of Jazz oriented material written or arranged for the Jazz Band.

MEN'S BASKETBALL BAND
159 Every semester/1 hour
Organized specifically for the basketball season. Members of the band are non-music majors and minors and are selected open to any student interested in musical performance. Must enroll Fall and Spring. Rehearsals are set on a TBA basis.

MEN'S CHAMBER ORCHESTRA
169 Every semester/1 hour
Open to all students interested in chamber orchestral literature and styles. Also, utilized on demand for accompaniment of yearly opera workshop and musical theatre productions.

MEN'S COLLEGIAL MUSICA
179 Every semester/1 hour
Open to all vocal majors and minors. Prerequisite: Instructor's approval.

MEN'S GRAND CANYON CHORUS
301 Every semester/1 hour
Select auditioned ensemble of 45-55 voices.

MUSIC RECITAL ATTENDANCE
109 Every semester
Thursday afternoon studio, area, and departmental recitals required of all music and performing arts majors and minors. Details listed in Music Student Handbook.

MUSIC FUNDAMENTALS OF MUSIC
109 Every semester and summer
Designed for every individual interested in acquiring skill as well as a thorough knowledge of the basic elements involved in the reading, writing, performance and understanding of music. No credit awarded for music majors.

MUSIC DICTATION ITALIAN
111 Every Fall/1 hour
A laboratory devoted to phonetic sounds of Italian as used by a singer. Prerequisite course to upper level Applied Voice.

MUSIC DICTATION FRENCH
112 Every Spring/1 hour
A laboratory devoted to phonetic sounds of French as used by a singer. Prerequisite course to upper level Applied Voice. Student having 2 years high school French or 1 year college French may test out of this course.

MUSIC DICTATION GERMAN
211 Every Spring/1 hour
A laboratory devoted to phonetic sounds of German as used by a singer. Prerequisite course to upper level Applied Voice. Student having 2 years high school German or 1 year college German may test out of this course.

MUSIC CLASS GUITAR
167 Every semester/1 hour
A practical introduction to the guitar, designed especially for beginners. Students will learn to play the guitar with both the plain style (pick only) and classical fingerstyle approaches. Emphasis on guitar pedagogy as applied to elementary and secondary education levels. Required of Music Education majors. Open only to non-music majors and minors. Knowledge of basic musical notation is required.

MUSIC CHAMBER MUSIC ENSEMBLES
189 Every semester/1 hour
Practica, study and performance of chamber music. Includes various chamber groups for the performance of wind, woodwinds, brasses, percussion, guitar and voice. Approval of private instructor. May be repeated for credit. Does not meet ensemble requirement without written consent of the College of Performing Arts.

MUSIC ELEMENTARY THEORY OF MUSIC I
191 Every Fall/4 hours
Designed for Music majors and minors, this is an integrated course in music history, ear training, sight singing, dictation, writing and keyboard harmony. Study is devoted to the structure of music for the purpose of developing skill in creative expression as well as skill in analyzing and understanding music being studied or performed. Grade of "C" or above necessary for advancement. Prerequisite: MUS 191 or equivalent.

MUSIC ELEMENTARY THEORY OF MUSIC II
192 Every Fall/4 hours
Continuation of MUS 191. Grade of "C" or above necessary for advancement. Prerequisite: MUS 191 or equivalent.

MUSIC OPERA WORKSHOP
219 Every Fall/3 hours
Participation and production of a full-length opera, two one-act operas or opera scenes. Provides activities in all phases of opera production (set design, costume, makeup, stagecraft, publicity). May be repeated for credit. Prerequisites: Audition and instructor's approval.

MUSIC MODERN RHYTHMS & STYLES I
220 Every Fall/2 hours
A comprehensive study of the mechanics of rhythm (pulse, subdivision). Survey of contemporary styles including jive, pop/rock, jive, Latin and various other popular forms.

MUSIC MODERN RHYTHMS & STYLES II
221 Every Spring/2 hours
A continuation of MUS 220. Prerequisite: MUS 220 or instructor's approval.

MUSIC HANDBELL TECHNIQUES
226 Every Fall/2 hours
A study of handbell techniques, materials, and methods of organizing and training handbell choirs. Prerequisite: Music appreciation ability.

MUSIC APPRECIATION
252 Every semester/1 hour
Designed specifically for non-Music majors and minors, this course contributes to the intellectual, emotional and aesthetic understanding of music as expression, science, and as an art closely kin to the other fine arts. Great works of music are heard to order that the student may gain insight into music's inner workings and that may develop a discriminating, intelligent appreciation of the best in music.

MUSIC FUNDAMENTALS OF CONDUCTING
281 Every Fall, on demand/3 hours
A study of the fundamentals of conducting, harmonic, and other music. Emphasis on vocal conducting techniques and problem-solving. May be taken by music majors. Prerequisite: MUS 191 or Instructor's approval.

MUSIC ADVANCED THEORY OF MUSIC I
291 Every Fall/4 hours
Advanced study in partwriting, including dissonant and other non-harmonic tones. Study is devoted to right-hand singing and dictation; keyboard application of theoretical materials. Original composition is emphasized utilizing traditional rhythmic harmonies as well as melody, 12 tone, serial, quartal and added note techniques. Grade of "C" or above necessary for advancement. Prerequisite: MUS 192 or equivalent.

MUSIC ADVANCED THEORY OF MUSIC II
292 Every Spring/4 hours
Continuation of MUS 291. Grade of "C" or above necessary for advancement. Prerequisite: MUS 291 or equivalent.

MUSIC CHORAL ACCOMPANYING
312 Every Fall/3 hours
Study of the techniques encountered in the keyboard literature, with emphasis on the development of technique on the organ or piano. Prerequisite: MUS 191, 192, 291, or instructor's approval.

MUSIC BASIC MODERN ARRANGING I
315 Every Fall/3 hours
A two-semester introductory course in arranging for the concert band and jazz band. These courses will not count towards the degree in music. Prerequisite: MUS 192, 193 or instructor's approval.

MUSIC RECORDING STUDIO PERFORMANCE
318 Every Spring/3 hours
A two-semester course designed to introduce students to recording studio performance. Covers "must know" infomation for recording studio technician, vocalist, director, arranger of future producer. Utilizes the recording studio, lecture, discussions, and group performance of audio analysis, mixing, mastering and editing.

MUSIC OPERA WORKSHOP FOR SCHOOL OR COMMUNITY THEATRE
319 Every Spring/2 hours
A study of the techniques and analysis of operas and musicals suitable for high school and community theatre production.

MUSIC JAZZ IMPROVISATION
320 Every semester/1 hour
A course designed to introduce the student to improvisation, wih emphasis on scales, modes and arpeggios. Prerequisites: MUS 191, 193, or Instructor's approval.

MUSIC COMMERCIAL MUSIC SEMINAR
350 Every Spring/3 hours
A course designed to familiarize students with the background and necessary skills required for a full or part-time career in Commercial Music. Prerequisite: Instructor's approval.
THEATRE AND DRAMA

TRE INTRODUCTION TO THE THEATRE 120 Every Fall, 3 hours
The study of dramatic structure, dramatic literature, period styles, and various types of drama.

TRE STAGECRAFT 140 Every semester, 3 hours
The study of set construction, lighting, costumes, properties, and make-up. Practical application of the above to be gained through university productions. May be repeated for credit once.

TRE ACTING I 150 Fall, 1994, and alternate years, 3 hours
Principles of pantomime and dramatic action designed to establish the proper relationship of the voice to the body and its functions in the interpretation of character. Designed to help develop confidence, grace, physical presence and facility in the voice, vocal, stage, etc.; and related fields. Prerequisite: Instructor's approval.

TRE ACTING II 250 Spring, 1993, and alternate years, 3 hours
An advanced acting course emphasizing scene study and musical analysis, allowing students to concentrate on the method and technique of building a character. Prerequisite: TRE 150 or instructor's approval.

TRE STAGE MOVEMENT 255 Every Fall, 3 hours
Theories and technical practices of styles and schools of stage movement. Study of action techniques, working with groups and individually, direction techniques, ballet, and the basic theories of Dea, Marce, and Alexander. Open to students and minors.

TRE CHRISTIAN DRAMA 270 Spring, 1994, and alternate years, 3 hours
Also MTH 270. A creative Christian dramatics lab with opportunities to perform for churches and other groups. Emphasis is on directing, selecting and editing, as well as performing religious drama. The student may choose to write original dramas with a Christian message or to correlate Christian drama with music. Ways and means of utilizing dramatic activity, organizing a drama group, and training the inexperienced within the church are studied.

TRE THEATRE PARTICIPATION 300 See TRE 200 (above).

TRE STAGECRAFT 340 See TRE 140 (above).

TRE COSTUME DESIGN 340 Spring, every third year, 3 hours
A comprehensive study of the major periods of costume history and the process of designing costumes for the theatre. Prerequisite: TRE 120 or instructor's approval.

TRE THEATRE HISTORY I (GREEKS TO RESTORATION) 370 Spring, 1994, and alternate years, 3 hours
An in-depth study of the history and development of theatre from ancient Greece to the English Restoration. Prerequisite: TRE 120 or instructor's approval.

TRE THEATRE HISTORY II (NINETEENTH CENTURY) 371 Spring, 1996, and alternate years, 3 hours
An in-depth study of the history and development of theatre from 18th century through modern times. Prerequisite: TRE 120 or instructor's approval.

TRE DRAMATIC LITERATURE I 375 Fall, 1994, and alternate years, 3 hours
A comprehensive study of the major periods and forms of dramatic literature dating from early Greece to the present. Prerequisite: TRE 120 or instructor's approval.

TRE DRAMATIC LITERATURE II 376 Fall, every third year, 3 hours
A comprehensive study of the major periods and forms of dramatic literature dating from the Restoration period of the present. Prerequisite: TRE 120 or instructor's approval.

TRE HISTORY AND LITERATURE OF THE LYRIC STAGE 378 Spring, 1996, and alternate years, 3 hours
An in-depth study of the lyric stage, divided into 5 categories: sacred music, drama from the Middle Ages, musical plays to contemporary church music, general music drama, from opera to Broadway musical, children's musical theatre, both for children and with children. Open to non-majors.

TRE DEPARTMENTAL TUTORING 396 Every semester, 1 hour
For course description see ACC 396 on page 112.

TRE THEATRE PARTICIPATION 400 Every semester, 1 hour
See TRE 200 (above).

TRE STAGE LIGHTING AND DESIGN 440 Spring, 1994, and alternate years, 3 hours
The art of designing lighting for the theatre. Students will actively participate in designing university productions and classroom projects. Prerequisite: TRE 120 or instructor's approval.

TRE ACTING III SCENE STUDY 455 Spring, every third year, 3 hours
Scene study is the final course of the acting series. Students will be involved with intense drum scene work from a wide variety of play scripts. Students will also work on auditions pieces in this course. Prerequisite: TRE 150 and 250.

TRE STAGE DIRECTION 490 Spring, 1996, and alternate years, 3 hours
A study of the techniques and interpretation of directing and directing plays through lectures and demonstration. Students are required to participate in laboratory projects in directing one-act or scenes from full-length plays for public performance. Prerequisite: TRE 120 or instructor's approval.

TRE INDEPENDENT STUDY 499 On demand, 1-4 hours
See page 53.

TUT VOLLUNTEER TUTORING 500 Every semester, 1 hour
See page 112.

TUT INDEPENDENT STUDY 500 On demand, 1-4 hours
See page 112.

Samaritan College of Nursing
Samaritan College of Nursing is an integral part of Grand Canyon University, working closely with the liberal arts and natural sciences departments. The curriculum leads to the degree of Bachelor of Science in Nursing. Courses are designed to assist the student to assess individual, family and communities; to utilize Functional Health Patterns within a variety of clinical settings; to formulate nursing diagnosis, plan nursing interventions and to function as a professional within the health team. Emphasis is on both a strong academic foundation and nursing practice. The student will have supervised clinical experiences in health care agencies within the metropolitan area. The student is responsible for personal transportation and uniform expenses necessary for the nursing major. Students are also expected to reflect the stated purpose of Grand Canyon University while representing the nursing program in the various clinical areas.

A one day Department Seminar attendance is required of students prior to acceptance to the nursing major. It is scheduled twice a semester to present the philosophy and curriculum. Application information is available for purchase in the campus bookstore. Deadline for application to the Fall semester is in March and the Spring semester is in November. The application procedure requires a completed application form, an interview, three selected references, successful completion of Math and Writing Proficiency exams, satisfactory completion of nursing prerequisites, and space availability. Approval of acceptance into the Samaritan College of Nursing is determined by the Academic Standards Committee. Priority for acceptance is given to students who have completed their first three semesters in residence at Grand Canyon University. A cumulative grade point average (GPA) of 2.5 and a GPA of 2.9 in prerequisite courses is recommended. There is an adjusted curriculum for returning R.N. students.

Admission to Grand Canyon University does not guarantee acceptance into the nursing program. Graduation from the nursing program requires successful completion of the sequential coursework and all general studies. After two consecutive semesters in the nursing major, students must maintain a 2.5 GPA average in nursing major courses.

Registered Nurse licensing requirements are the exclusive responsibility of the State Board of Nursing (Nurse Practice Act A.R.S. Sections 32-1652, et seq.), and must be satisfied independently of any requirements for graduation from the University. The baccalaureate program is approved by the Arizona State Board of Nursing, accredited through the National League for Nursing and the College is a member of the American Association of Colleges of Nursing and a charter member of the Western Institute of Nursing.

**COLLEGE OF NURSING FEATURES**

**FACULTY**
The courses are taught by Master's- or Doctoral-prepared, experienced nursing faculty at a low faculty-to-student ratio of 1:8 to 1:10.

**CLINICAL EMPHASIS**
Nursing practice in the hospital starts in the sophomore year. The last two years are approximately 22-24 hours per week in the clinical agency to apply theory in patient-care situations.

**SENIOR NURSING INTERNSHIP**
This last course of the program assists the student in role transition and gaining confidence in a specialty area. Students may select practice areas such as emergency department, intensive care, or labor and delivery in this course.

**HEALTH ISSUES PROJECTS**
An independent study of student selected topics is developed throughout the major. Each semester the student will have activities such as contacting community resources, writing legislators or literature reviews. A final research study is presented at the final senior seminar.

**EMPLOYMENT OPPORTUNITIES**
Development of resume and interview skills are part of the senior studies. Seniors are recruited heavily for employment by local hospitals prior to graduation. Agencies frequently contact the College of Nursing to request students for employment in summers or holidays.

**NURSING SCHOLARSHIP**
Designated funds are allocated for nursing students based upon previous academic work and financial need. Pre-nursing scholarships are available to high school seniors, transfer and returning students. Contact the College of Nursing for more information.

**SMALL PRIVATE UNIVERSITY**
There is accessibility of faculty for questions, personal concerns and academic planning. (Our success is evident in our graduates who consistently score high on the national board exam.) Each nursing class is limited to 20 students per semester. Students frequently cite close relationships among friends and faculty as one of the highlights of the College of Nursing.

**FACULTY**
A new building provides an academic setting for an optimal educational experience. Student parking is in an adjacent lot. A learning resource area with computer terminals and audio-visual hardware was designed for individual or group activities. A nursing lab simulates the hospital environment for student practice. Students have the opportunity for video production in a studio designed for this purpose.

**JANUARY TERM**
Grand Canyon offers a three-week winter term (the first three weeks of January) that allows students to choose non-traditional studies such as international tours. The nursing program offers a variety of health-related topics at this time including: rural health care, health promotion and physical assessment, nutrition, and operating-room nursing.

**SPIRITUAL EMPHASIS**
Recognition of the spiritual needs of all persons is included as an integral part of caring for self and others. An ethics course provides an opportunity to develop a Christian ethical approach to the future professional role.

**LOCATION**
The university is located in metropolitan Phoenix with access to a variety of clinical agencies. Agencies include large and small medical facilities such as Good Samaritan Medical Center, Maryvale Samaritan Hospital, West Valley Camelback Hospital, Phoenix Children's Hospital, Thunderbird Samaritan Hospital and Phoenix Baptist Hospital.

**ADVANCED EDUCATION/ CERTIFICATE PROGRAMS**
The College of Nursing is offering the following advanced nursing education programs:
- Gerontology Nursing
- Flight Nursing
- Neonatal Nurse Practitioner Program

**FINANCIAL AID/SCHOLARSHIPS**
Financial aid processing and advisement is available through the university's Financial Aid Office. Nursing students may be eligible for Pell Grants, Supplemental Loans, Guaranteed Student Loan Program, Department Scholarship, Academic Scholarship and agency tuition reimbursement programs.

The following information is in three sections. The first is for the general or transfer student, the second for students who are Associate Degree Nurse (A.D.N.) registered nurses. Section three is course descriptions.

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**DEGREE REQUIREMENTS — NURSING**

Section I. Information for Generic Student

**PREREQUISITES FOR NURSING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 201</td>
<td>Anatomy &amp; Physiology</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 205</td>
<td>Microbiology</td>
<td>4 hours</td>
</tr>
<tr>
<td>CHE 101, 102</td>
<td>Chemistry</td>
<td>8 hours</td>
</tr>
<tr>
<td>EEW 101</td>
<td>102 Grammar/Composition</td>
<td>6 hours</td>
</tr>
<tr>
<td>MAT 120</td>
<td>Intermediate Algebra</td>
<td>6 hours</td>
</tr>
<tr>
<td>MAT 095</td>
<td>(MAT 095 may be required based on math placement exam)</td>
<td>3 hours</td>
</tr>
<tr>
<td>NUR 204</td>
<td>Nutrition</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSY 250</td>
<td>Growth &amp; Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
<td>3 hours</td>
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<td>TOTAL</td>
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**NURSING MAJOR REQUIREMENTS**

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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NUR 202</td>
<td>Fundamentals of Nursing</td>
<td>8 hours</td>
</tr>
<tr>
<td>NUR 203</td>
<td>Pharmacology</td>
<td>3 hours</td>
</tr>
<tr>
<td>NUR 301</td>
<td>Concepts of Med/Surgery Nursing</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 302</td>
<td>Mental Health Nursing</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 303</td>
<td>Maternity Nursing</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 304</td>
<td>Pediatric Nursing</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 401</td>
<td>Community Health Nursing</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 402</td>
<td>Advanced Med/Surg Nursing</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 403</td>
<td>Nursing Leadership</td>
<td>6 hours</td>
</tr>
<tr>
<td>NUR 404</td>
<td>Research, Trends &amp; Issues in Nursing</td>
<td>3 hours</td>
</tr>
<tr>
<td>NUR 498</td>
<td>Senior Nursing Internship</td>
<td>3 hours</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>59 hours</td>
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Suggested Curriculum Plan
Generic or Transfer Students

Freshman Year

1st Semester
- ECE 101 Grammar/Composition 3
- BIO 101 Anatomy & Physiology 4
- CHE 101 Chemistry 4
- MAT 100 Intermediate Algebra* 3
- PE Activity** 1

2nd Semester
- ECE 102 Composition/Literature 3
- BIO 202 Anatomy & Physiology 4
- CHE 102 Chemistry 4
- PSY 100 General Psychology 4
- PE Activity** 1

Sophomore Year

1st Semester
- NUR 201 Goals in Health Care 2
- BIO 205 Microbiology 4
- PST 296 Growth & Development
- SOC 101 Principles of Sociology 3

2nd Semester
- NUR 203 Fundamentals of Nursing 8
- NUR 207 Intro to Pharmacology 3
- PST 301 Intro to Statistics 3

Junior Year

1st Semester
- NUR 301 Concepts of Med/Surg Nursing 6
- NUR 302 Mental Health Nursing 6
- NUR 303 Maternity Nursing 6
- NUR 304 Pediatric Nursing 6
- NUR 401 Community Health Nursing 6
- NUR 402 Advanced Med/Surg Nursing 6
- PHI 111 Ethics for the Professions 3

2nd Semester
- NUR 305 Gerontology Nursing 6
- NUR 306 Pediatric Nursing 6
- NUR 307 Psychiatric Nursing 6
- NUR 400 Research Trends and Issues in Nursing 3

Senior Year

1st Semester
- NUR 401 Community Health Nursing 6
- NUR 402 Advanced Med/Surg Nursing 6
- PHI 111 Ethics for the Professions 3

2nd Semester
- NUR 403 Nursing Research 6
- NUR 406 Research Trends & Issues 3
- NUR 408 Senior Nursing Internship 3
- Humanities Elective 3

Total hours for Bachelor of Science in Nursing
- 129 hours

* Required for graduation, not a prerequisite to the nursing major.

** Required for graduation, not a prerequisite to the nursing major.

This schedule may be adjusted due to individual needs.

Section 2. Information for Registered Nurse A.D.N. Graduates

PREREQUISITES FOR NURSING

BIO 201, 202 Anatomy & Physiology (with labs) 8 hours
BIO 205 Microbiology (with lab) 4 hours
CHE 101, 102 Chemistry (with labs) 8 hours
ECE 101, 102 Grammar & Composition 4 hours
NUR 204 Nutrition 4 hours
PSY 101 General Psychology 3 hours
PSY 250 Growth and Development 3 hours
SOC 101 Principles of Sociology 3 hours

TOTAL 38 hours

Admission requirements for the R.N. with active licensure and practice are consistent with those required for generic students.

COURSES WAIVED/CREDIT GRANTED

NUR 202 Fundamentals (8 credits), and NUR 203 Pharmacology (3 credits) are waived for the R.N. student, based on current practice. Humanities credits, electives or other courses are recommended for credit substitution.

Sixteen hours of technical credit is granted for A.D.N. graduates.

JUNIOR YEAR OPTIONS

The R.N. student has the option to reduce one-to-three credits of the 300 level nursing courses by successful scores on the N.L.N. Mobility and teacher-made exams. The R.N. may prepare for the exams by reviewing the course text purchased in bookstore or using NCLEX review materials. A special examination fee is due in the Business Office prior to testing for each course. In addition, there is a $30 testing fee (per course) that needs to be brought to the Samaritan College of Nursing the day of the exam. Upon satisfactory testing, an additional fee is required to officially list the three credits on the student's transcript. Please see page 17 for fee. The faculty member and R.N. student meet to determine projects, exams, reports etc. as learning activities to meet the remaining three to five credits.

SENIOR YEAR OPTIONS

Most senior year courses are not available for testing for credit. The courses are designed for daytime attendance. A 402 Advanced Med/Surg pilot project has been initiated where 3 credits may be satisfied by passing the N.L.N. Mobility and teacher-made exams. The student then registers for all six credits. By individual arrangement, part-time matriculation may be available based on clinical space.

The NUR 498 Senior Nursing Internship allows the R.N. student a choice in area of interest to facilitate role transition and career opportunities. During the internship course, the graduating student develops learning objectives with an R.N. preceptor. A variety of agencies accommodate the R.N. student in role of management, education or clinical practice.

LENGTH OF STUDY

For a typical R.N. student who has completed all of the prerequisites, four semesters would be expected as minimum matriculation time. Some students will require longer time in order to meet the prerequisites or required courses for graduation.
NURSING

NUR FUNDAMENTALS OF NURSING 202 Every semester/8 hours
Emphasizes competence in nursing skills. Content includes basic care of the adult client using functional health patterns as the basis for assessment and care. There are additional projects in geriatric nursing and community resources. Communication, teaching, helping, problem solving and leadership skills are introduced and integrated in clinical practice. Prerequisite: Acceptance into the Nursing program.

NUR INTRODUCTION TO PHARMACOLOGY 203 Every semester/1 hour
Provides overview of major drug categories utilized in prevention, treatment and diagnostic study of disease. Emphasis is on knowledge of drug classifications, actions, and therapeutic use in nursing. The course is available for non-nursing majors. Prerequisite: 1 semester biology or chemistry.

NUR APPLIED NUTRITION 204 January Term/1 hour
Provides a foundation of basic nutrition theory. The focus will be on assessment, food components, exercise and nutrition, weight control, community programs and resources. Application and analysis of these aspects will be integrated into class projects and activities. Prerequisite: 1 semester biology or chemistry.

NUR CONCEPTS OF MED/SURG NURSING 301 Every semester/6 hours
Presents theory common to medical-surgical nursing of hospitalized adults. Content includes care of patients with chronic and terminal medical-surgical problems. Assessment, pharmacology and pathophysiology are integrated in teaching and clinical care. Prerequisite: NUR 202, 203, or R.N.

NUR MENTAL HEALTH NURSING 302 Every semester/6 hours
Presents human behavioral dysfunction as part of the mental health wellness-illness continuum. Content includes adaptive/inadaptive behavior as influenced by individual, family, cultural and environmental aspects. Emphasis is on therapeutic communication and interpersonal relationship skills. Prerequisite: NUR 202, 203, or R.N.

NUR MATERNITY NURSING 303 Every semester/8 hours
Emphasizes family-centered nursing during the childbearing phase of life. Content includes the normal phenomena and complications of pregnancy, birth and the post-natal period. In-patient and out-patient settings are utilized to provide care for patients and families. Prerequisite: NUR 301, 302.

NUR PEDIATRIC NURSING 304 Every semester/6 hours
Integrates nursing theories, concepts of care, clinical skills, and developmental principles involved with the promotion of health and well-being in infants, children and adolescents. Focus is on the physical/developmental/environmental assessment and the clinical application of nursing care to young persons who are well or experiencing acute, episodic or chronic illnesses and to their families. Prerequisites: NUR 301, 302.

NUR HEALTH AND AGING ASPECTS 333 Fall, on demand/3 hours
Health and Aging will provide an overview of the process of aging from a social, psychological, and physiological perspective with implications for the role of the nurse and other health care providers. Topics will focus on concepts applied in working with the elderly population, such as elder abuse, and depression.

NUR DEPARTMENTAL TUTORING 396 Every semester/2 hours
For course description see ACC 396 on page 112.

NUR COMMUNITY HEALTH NURSING 401 Every semester/6 hours
Provides an epidemiological model as the framework for studying community health problems. Concepts of public health nursing are applied to the care of families, groups and populations. Prerequisite: NUR 303, 304.

NUR ADVANCED MEDICAL/SURGICAL 402 NURSING Every semester/6 hours
Presents the complex nursing care of the medical-surgical adult in the intensive care area and emergency room. Pathophysiology and related nursing care of life threatening disruptions involving cardiac, respiratory, neurological, renal, gastrointestinal, and other organ dysfunctions in theory and clinical situations. Prerequisites: NUR 303, 304.

NUR NURSING LEADERSHIP AND MANAGEMENT 403 Every semester/6 hours
Presents purposes and methods of leadership styles within the clinical setting. Emphasis is on the management of groups of patients, consumers and professional staff. Content includes: planning and evaluating nursing care, supervising personnel, developing education skills, understanding organizational budgets and finances and identifying common problems encountered in the professional leadership role. Prerequisite: NUR 401, 402.

NUR RESEARCH, TRENDS AND ISSUES 404 IN NURSING Every semester/1 hour
Promotes research process as a framework for analysis of clinical practice, legislation, nursing trends, and health care services. Quantitative and qualitative methods of research are introduced by critiquing studies and independent projects. Content includes: research in nursing affecting health care, ethics, nursing manpower, professional writing and expanded use for nurses. Prerequisite: NUR 401, 402.

NUR PERINATAL TRANSPORT NURSING 495 On demand/5 hours
This course is designed to prepare the experienced High Risk Maternal and Neonatal Intensive Care Nurse for flight transport of the perinatal client. Included is anatomy and physiology, pathophysiology of pregnancy, assessment and management of emergencies related to pregnancy, neonatal congenital defects and medical/surgical conditions/injuries, stations and case presentations. Didactic content is reinforced in the clinical areas of Labor and Delivery, Newborn I.C.U., labs, ground transports and fixed wing and rotary wing settings. Prerequisites: R.N. status and instructor's approval.

NUR SENIOR NURSING INTERNSHIP 498 Every semester/1 hour
Provides a student selected clinical experience to optimize the transition to a professional career. Nursing specialty areas are chosen according to preceptor availability and student interest. A faculty member assists in planning, implementing and evaluating the learning experience. Prerequisite: NUR 403.
DEPARTMENT DESCRIPTION

Through an agreement with Arizona State University and the United States Air Force at Grand Canyon University, students at Grand Canyon University can take classes in ROTC. Students register for the classes at Grand Canyon University and take the courses at Arizona State University.

The goal of the ROTC classes is to provide a foundation of military knowledge and skills needed by junior officers in the military. Students may take ROTC credit in Army, Military Science or Air Force courses.

Aerospace Training:

For further information contact ASU Army ROTC at 965-3318/19 or Air Force ROTC at 965-3181.

AIR FORCE ROTC

PURPOSE

The Department of Aerospace Studies curriculum consists of the General Military Course (GMC) for freshmen and sophomores and the Professional Officer Course (POC) for juniors and seniors. The goal of this professional education is to provide the foundation of military knowledge and skills needed by Air Force junior officers. Upon graduation, each student who satisfactorily completes the Professional Officer Course and degree requirements will receive a commission as a Second Lieutenant in the Air Force Reserve.

GENERAL QUALIFICATIONS

Men or women entering AFROTC must:
1. be a citizen of the United States (noncitizens may enroll, but must obtain citizenship prior to commissioning); (2) be of sound physical condition; (3) be at least 17 years of age for scholarship appointment or admittance to the POC. Additionally, scholarship recipients must be able to fulfill commissioning requirements by age 25. If designated for flying training, the student must be able to complete all commissioning requirements prior to age 26; other categories must be able to complete all commissioning requirements prior to age 30.

FOUR-YEAR PROGRAM (GMC and POC)

A formal application is not required for students entering the four-year program. A student may enter the program by simply registering for one of the General Military Course (GMC) classes at the same time and in the same manner as other courses. GMC students receive two semester hours of credit for each AES100 and AES200 class completed, a total of eight semester hours. GMC students not on AFROTC scholarship incur no military obligation. Each candidate for commissioning must pass an Air Force aptitude test and a physical examination and be selected by an interview board of Air Force Officers. If selected, the student then enrolls in the Professional Officer Course (POC), the last two years of the Air Force ROTC curriculum.
Students attend a four-week field training course at an Air Force Reserve base during the sophomore and junior year. Upon successful completion of the POC and the college requirements for a degree, the student is commissioned in the U.S. Air Force as a Second Lieutenant. The new officer then enters active duty or may be granted an educational delay to pursue graduate work.

TWO-YEAR PROGRAM (POC)

The basic requirement for entry into the two-year program is that the student have two academic years of college work remaining, either at the undergraduate or graduate level. Applicants seeking enrollment in the two-year program must pass an Air Force aptitude test and a medical examination, and be selected by an interview board of Air Force officers. After successfully completing a six-week field training course at an Air Force Reserve base, the applicant may enroll in the Professional Officer Course in the Air Force ROTC program. Upon completion of the POC and the college requirements for a degree, the student is commissioned.

QUALIFICATIONS FOR ADMITTANCE

Qualifications for Admission to the Professional Officer Course (POC) are:
1. For the four-year student, successfully complete the General Military Course.
2. For the two-year application, complete six-week field training course.
3. Pass the Air Force Officer Qualification Test (AFOQT).
4. Pass the Air Force physical examination.
5. Maintain the minimum grade point average required by the college.

PAY AND ALLOWANCES

POC members in their junior and senior years receive $100 per month for a maximum of 20 months of Professional Officer Course attendance. Students are required to attend field training. In addition, uniforms, housing and meals are provided during field training at no cost to the student. Students are reimbursed for travel to and from field training.

SCHOLARSHIPS

Air Force ROTC offers scholarships annually to outstanding young men and women on a nationwide competitive basis. Scholarships cover full college tuition for resident and nonresident students as well as an allowance for books, fees, supplies and equipment, plus a monthly tax-free allowance of $100. Scholarships are available on a 4-, 3½-, 3-, 2½- and 2-year basis. To qualify for the 4-year scholarship, students must be U.S. citizens and self-supporting on or before December 1 of their senior year in high school. Interested students should consult their high school counselors or call AFROTC at ASU for application forms to be submitted to HQ AFROT, Maxwell AFB, AL 36112-6663. Male and female students enrolled in AFROTC at Arizona State University are eligible for 3½-, 3-, 2½- and 2-year scholarships. Those interested must apply through the Department of Aerospace Studies. Consideration is given to academic grades, score achieved on the Armed Forces Qualifying Test and physical fitness. A board of officers considers an applicant's personality, character, and leadership potential.

AEROSPACE STUDIES

AEROSPACE STUDIES

AERIAL RESCUE

INTRODUCTION TO U.S. AIR FORCE ORGANIZATION

101 Every Fall/2 hour

LIFE HISTORY TO WORLD WAR II

201 Every Fall/2 hour
Background on strategic military defense forces, general purpose and aerospace support in national defense. One lecture, 1 hour Leadership Practical Application.

AERIAL RESCUE HISTORY TO WORLD WAR II

202 Every Fall/2 hour
Historical survey of events, trends, and policies leading to the emergence of air power through World War II. One lecture, 1 hour Leadership Practical Application.

AERIAL RESCUE HISTORY: WW II

TO PRESENT

202 Every Spring/2 hour
Development of aerospace power from World War II to the present emphasizing the impact of limited war and technology on roles and missions. One lecture, 1 hour Leadership Practical Application.

AERIAL RESCUE MANAGEMENT & LEADERSHIP

101 Every Fall/2 hour
An integrated management course emphasizing the individual as a manager in an Air Force milieu. Individual decisional and behavioral processes, leadership, communication, and group dynamics are covered. Two lectures, 1 hour Leadership Practical Application.

AERIAL RESCUE MANAGEMENT & LEADERSHIP

301 Every Fall/2 hour
An integrated management course emphasizing the individual as a manager in an Air Force milieu. Individual decisional and behavioral processes, leadership, communication, and group dynamics are covered. Two lectures, 1 hour Leadership Practical Application.

AERIAL RESCUE MANAGEMENT & LEADERSHIP

401 Every Fall/2 hour
An integrated management course emphasizing the individual as a manager in an Air Force milieu. Individual decisional and behavioral processes, leadership, communication, and group dynamics are covered. Two lectures, 1 hour Leadership Practical Application.

AERIAL RESCUE MANAGEMENT & LEADERSHIP

501 Every Fall/2 hour
An integrated management course emphasizing the individual as a manager in an Air Force milieu. Individual decisional and behavioral processes, leadership, communication, and group dynamics are covered. Two lectures, 1 hour Leadership Practical Application.
effectively; providing the student with an appreciation of the requirements for national security; and developing the students' understanding of the nature and functions of the U.S. Army. Upon successful completion of the Advanced Course, qualified students will receive commissions in the United States Army Reserve or Army National Guard. Active duty positions are available upon graduation from the university.

Appointments as Second Lieutenants in the Regular Army are available to outstanding students who desire a career in the military service.

**GENERAL QUALIFICATIONS FOR BASIC COURSE**

Any student who is enrolled at Grand Canyon University can enter into the military science basic course. It is strongly recommended that they be in sound physical shape as some of the curriculum requires physical exertion.

**QUALIFICATIONS FOR ADVANCED COURSE**

Any student who is enrolled at Grand Canyon University may enroll in the military science advanced course. However, to be competitive and obtain a commission in the United States Army, students must meet the following requirements:

1. Be a citizen of the United States (non-citizens may enroll but must obtain citizenship prior to commissioning).
2. Be of good physical condition and pass the U.S. Army physical fitness standards.
3. Be at least 17 years of age for entrance into the advanced course and be able to complete all remaining requirements prior to age 30. Only those students in the basic and advanced courses who met required military regulations are eligible to receive financial assistance through the United States Army. Members of the Department of Military Science at Arizona State University are available at all times during normal office hours to answer questions or provide counseling.

**FOUR-YEAR PROGRAM**

Students may enroll in Army ROTC during their freshman year. They take the basic course during the first two years, receiving a total of 8 semester hours credit for the four semesters of study. Upon satisfying the requirements stated above, they enter the advanced course where they will earn 10 semester hours for the four semesters of study. In addition, students will attend a six-week advanced summer camp at Ft. Lewis, Washington, between their junior and senior years. Upon successful completion of the advanced course and requirements for a degree, they are commissioned as Second Lieutenants in the United States Army Reserve or Army National Guard.

**TWO-YEAR PROGRAM**

Students must have at least two academic years of college work remaining, either as the undergraduate or graduate level. The student must also have at least sophomore status (except for certain exceptions applicable to veterans). This program is open to all students with the exception of three- and four-year scholarship winners. Students seeking enrollment in the two-year program should make application during the spring semester of the year in which they desire to enter the program. They must pass the ROTC Qualifying Examination and the Army physical examination. After successfully completing a six-week basic camp at Army Post (conducted during June, July, and August) or completing the basic course classes during a university summer session (not always offered), students may enroll in the advanced course. Students with previous military experience or who are currently members of the National Guard or Reserves may be admitted directly into the two-year program. They then follow the same program and meet the same requirements as stated for advanced course students in the four-year program.

**Qualifications for Admittance to the Advanced Course.** The qualifications are as follows:

1. Successful completion of the basic course for the student in the four-year ROTC program. For the student in the two-year program, selection for and successful completion of the six-week basic summer camp.
2. Passing the ROTC Qualifying Examination.
3. Passing the Army physical examination.
4. Attainment of the minimum cumulative GPA required for graduation in the student's selected major, attainment of at least sophomore class standing and maintenance of that minimum GPA or better as a full time student during enrollment in the advanced course.

**PAY AND ALLOWANCES**

Advanced Course students in their junior and senior years receive $100 per month for the 20 months of enrollment in the Advanced Course. The student also receives one-half the pay for a second lieutenant during their attendance at the five-week advanced camp. Uniforms, housing and meals are provided at camp without cost to the students, and they are reimbursed at the current mileage rate for travel to and from the camp. Students who attend basic camp receive the pay of an Army recruit during attendance at basic camp as well as the current mileage rate for travel to and from the camp.

**SCHOLARSHIP PROGRAMS**

The Army ROTC offers scholarship programs for outstanding young men and women who are motivated toward a career as professional officers in the Regular Army. These scholarships pay for all fees, tuition and provide $100 per month subsistence allowance while the scholarship is in effect. In addition, a flat rate is paid each semester toward the purchase of texts and some academic supplies. A scholarship for four years is available to freshmen who will enter the four-year program. Applications must be submitted in accordance with a schedule furnished by the high school counselors. Selection is made on a nation-wide basis. Scholarships are available for three- and two-year periods commencing with the sophomore and junior years of ROTC, respectively. Applications are open to all students in good standing with the University; previous ROTC or military experience is not required for application to two-year and three-year scholarships. Selection is made by an interview board composed of Arizona State University faculty members and Army officers in the ROTC detachment. Acceptance of any of the three scholarship programs requires service commitment to serve in the active Army for a period of up to four years after commissioning and graduation.

**ACTIVE DUTY REQUIREMENTS**

Graduates of Army ROTC may serve as officers in the Army National Guard, Army Reserve or active Army. Active duty commitments may vary from four years to as little as three months. Scholarship students have up to a four-year active duty commitment.

**MILITARY SCIENCE**

**MISS INTRODUCTION TO MILITARY SCIENCE**

**101** Every semester/2 hours
Organization and mission of the Army within American society; current issues in the military; military justice system; basic leadership skills. Two lecture-conferences.

**METHODS OF INSTRUCTION**

**102** Every Spring/2 hours
Learning theories and principles of instruction; development of instructor knowledge, skills and characteristics; instructional methods; lesson plan presentations; evaluation techniques. One lecture-conference, one and one-half hours of Leadership Practical Application.

**LAND NAVIGATION AND SURVIVAL**

**201** Every semester/2 hours
Components of maps; use of map and compass; orientation and land navigation exercises; military mapping system; basic outdoor survival skills. Two lecture-conferences, one and one-half hours of Leadership Practical Application.

**LEADERSHIP AND MANAGEMENT DEVELOPMENT**

**204** Every Spring/2 hours
Interdisciplinary approach to leadership and management; ethics, responsibility and conduct of military officers; effective decision-making techniques; introduction to drill and ceremonies. One lecture-conference, one and one-half hours of Leadership Practical Application.

**ROT C BASIC CAMP**

**201** Every Summer/6 hours
Six-week training program emphasizing practical hand-on skills and leadership development. Taken in lieu of MIS 101, 102, 203 and 204. Conducted at Fort Knox, Kentucky.

**HISTORY OF AMERICAN FLAG**

**294** Every semester/1 hour
A unique historical survey of the American nation through the development and use of the American Flag.

**ADVANCED MILITARY SCIENCE**

**301** Every Fall/3 hours
Theory and dynamics of the individual soldier and military units in offensive combat operations. Two lecture-conferences, one and one-half hours of Leadership Practical Application, one 3-day field exercise, three 1-day field experiences.
Prerequisite: MIS 101, 102, 203, 204, or equivalent.
MIS ADVANCED MILITARY SCIENCE
302 Every Spring 3 hours
Theory and dynamics of military units in defensive
combat operations. Two lectures-conferences, one
and one-half hours of Leadership Practical
Application, one 3-day field exercise; two 1-day
field exercises. Prerequisites: MIS 101, 202,
203, 204, or equivalents.

MIS ROTC ADVANCED CAMP
303 Six-week training program emphasizing leadership
development and advanced military skills to include:
tactics, land navigation and physical training.
Conducted at Fort Lewis, Washington.
Prerequisites: MIS 301, 302.

MIS ADVANCED MILITARY SCIENCE
401 Every Fall 2 hours
The military legal system; preparation and conduct
of military training; leadership development; ethics
and professionalism of the military officer. Two
lectures-conferences, one and one-half hours of
Leadership Practical Application, one 2-day field
exercise; three 1-day field exercises.
Prerequisites: MIS 301, 302.

MIS ADVANCED MILITARY SCIENCE
402 Every Spring 2 hours
Military correspondence; career planning and
personal affairs in service; conduct of training;
leadership development; ethics and professionalism
of the military officer. Two lectures, one and one-
half hours Leadership Practical Application, one 3-
day field exercise; two 1-day field exercises.
Prerequisites: MIS 301, 302.
Ralph Bryant: President of English, University of California, Dean of the College of Arts and Sciences, B.S., M.A., Ph.D., University of North Texas University of Colorado

Jane Sawey Castillo: Assistant Professor of Special Education, B.S., M.A., Ph.D., University of New Mexico

Nancy Clauter: Instructor in Music, B.S., M.M., Arizona State University

Sheila Corley: Assistant Professor of Music, B.S., M.M., Arizona State University

Debra A. Croose: Assistant Professor of Reading Education, B.S., Tennessee State University, M.S., Ed. North Georgia State University, Ph.D., University of Missouri-Columbia

Cheryl Doan: Assistant Professor of Music, B.S., M.M., Texas State University

Stephan T. Donohue: Professor of Psychology, B.S., M.A., Ed.D., New Mexico State University

Jean Foote: Associate Professor of Nursing, M.S., B.S.N., University of Minnepe

Elizabeth Gilbert: Associate Professor of Nursing, B.S., Union College, M.S., Loma Linda University

Ned Grossnickle: Professor of Biology, B.S., University of Michigan, M.S., University of Wisconsin-Milwaukee, Ph.D., University of Wisconsin

Thomas E. Hancock: Assistant Professor of Education, B.A., Whitman College, M.S., University of Seattle-Puget Sound, Ph.D., Candidate, Arizona State University

Barbara Hoffman: Professor of History, University of Chicago, Chairman of the Department of History and Social Sciences, B.S., M.A., Central Missouri State University, Ph.D., University of Colorado

David M. Holley: Professor of Philosophy and Cultural Studies, B.A., Bryn Mawr College, M.A., Southern Baptists Theological Seminary, Ph.D., University of Texas at Austin

Patty J. Jones: Professor of Education, Dean of the College of Education, B.S., University of Texas, M.A., Northern Arizona University, Ed.D., Arizona State University

John F. Howerton: Associate Professor of English, B.A., Grand Canyon College, M.A., Arizona State University, M.D., Midwestern Baptist Theological Seminary

Robert Lightner: Associate Professor of Business, Dean of the College of Business, B.S., California Polytechnic University, M.B.A., Pepperdine University

Judy S. Livley: Assistant Professor of Music, B.M., Texas Christian University, M.M., Southern Methodist University, D.M.A., Candidate, North Texas State University

Donna Manzellan: Assistant Professor of Nursing, B.S.N., M.S., M.D., Oklahoma, M.A., University of Tulsa, Ed.D., Oklahoma State University

J. C. Martin: Professor of Kinesiology, Elementary, B.A., University of California, M.A., University of Nevada-Reno

Charles W. Hoyle: Professor of Sociology, Arizona State University

Barbara A. McLoone: Professor of Philosophy, B.A., University of Arizona, M.A., University of California at Los Angeles, Ph.D., Arizona State University

Barbara Hintze Miller: Associate Professor of Computer Science, Computer Science, Arizona State University, B.S., Grand Canyon College, M.S., California State University, Ph.D., Candidate, Arizona State University

Erdie Morris: Professor of Biology, B.S., M.A., Arizona State University, Ph.D., Northern Arizona University, M.P.H., University of California Berkeley

Ryan W. Oakes: Assistant Professor of English, Co-Chairman of the Department of Humanities, English, and Modern Languages, B.A., Arizona State University, M.A., Northern Arizona University, Ph.D., Candidate, California State University

Josephine Onig: Associate Professor of Chemistry, B.S., M.A., Arizona State University, M.S., Indiana State University, Ph.D., Candidate, California State University

Paul Paiga: Professor of Music, B.M., Boston University, M.M., Northwestern University, Ph.D., Boston University

Peter Papadopol: Professor of Mathematics, Director of Dynamical Systems Lab, M.S., Ph.D., University of Rochester, Romania

Janeenene Pence: Associate Professor of Health and Physical Education, B.A., Oklahoma Baptist University, M.Ed., Central State University

Claude N. Penske: Associate Professor of Theatre, Director of Theatre, B.S., University of Wisconsin-Oshkosh, M.F.A., University of Wisconsin, Madison

Donna R. Person: Assistant Professor of Nursing, B.S.N., Aquinas College, M.S., South Dakota State University, M.A., University of South Dakota

Ronald Phillips: Associate Professor of Music, Acting Dean of the College of Performing Arts, B.S., M.M., Michigan State University

Jane Preston: Instructor of Business, B.B.A., West Texas State College, M.B.A., West Texas State University

Denis Proffitt: Professor of Finance, B.S., Central Missouri State, M.B.A., Bradley University, Ph.D., St. Louis University

J. Niles Puckett: Professor Emeritus of the Department of Christian Studies, B.A., Mississippi College, L.L.D., Humboldt State University, Th.D., Southern Baptist Theological Seminary

Mavis Pust: Assistant Professor of Spanish, B.A., Grand Canyon College, M.A., Arizona State University

Pamela Randolph: Assistant Professor of Nursing, B.S.N., M.S.N., Arizona State University

Theresa Ranieri: Assistant Professor of Nursing, B.S.N., Carroll College, M.P.H., University of California Berkeley

Dinah Alderman Rengel: Assistant Professor of Art, B.F.A., Radford University, M.F.A., Penn State University

Cheryl Roat: Professor of Nursing, B.S.N., Olivet Nazarene University, M.S.N., University of Missouri-Columbia

W. Kay Robinson: Associate Professor of Speech, B.S., Grand Canyon College, M.Ed., Az., Arizona State University

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Gloria Schmidt: Assistant Professor of Nursing, B.S., Northern Illinois University, M.N., University of Florida

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Assistant Professor of Education  
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MARJORIE VANDELDEN  
Associate Professor of Nursing  
B.S.N., Arizona State University; M.S.N., Texas Women’s University

BILLY WILLIAMS  
Professor of Mathematics, President  
B.S., Grand Canyon College; M.A. in Ed., Arizona State University; M.A., University of Illinois;  
Ph.D. in Mathematics, Arizona State University

DAVID WING  
Professor of Chemistry  
B.S., Western College; Ph.D., Northeastern University

JIM WITHERSPOON  
Professor of Biology,  
Chairman of the Department of Natural Sciences  
B.S., M.S.; Ph.D., Purdue University

CAROLE YOUNG  
Assistant Professor of Psychology  
B.A., Spring Arbor College; M.A., Ph.D., Arizona State University

CLARK YOUNGBLOOD  
Professor of Christian Studies  
B.A., Hardin-Simmons University; M.Div.,  
Ph.D., Southern Baptist Theological Seminary

Adjunct Personnel are used when their special abilities or experience would enrich the curriculum.